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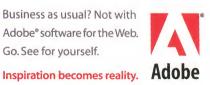


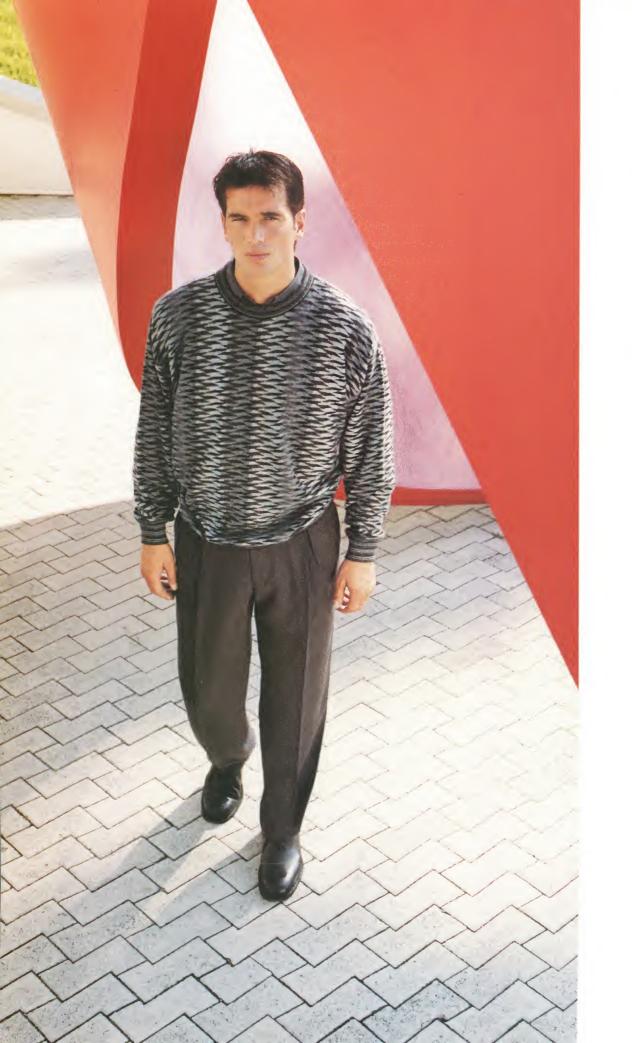




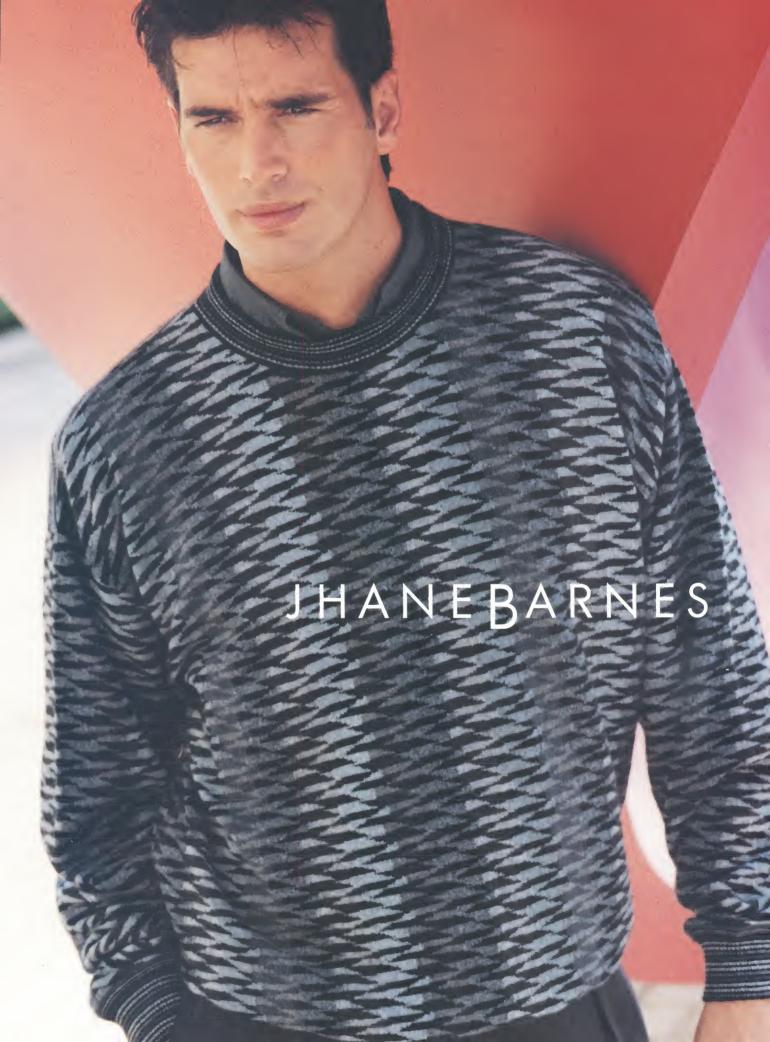
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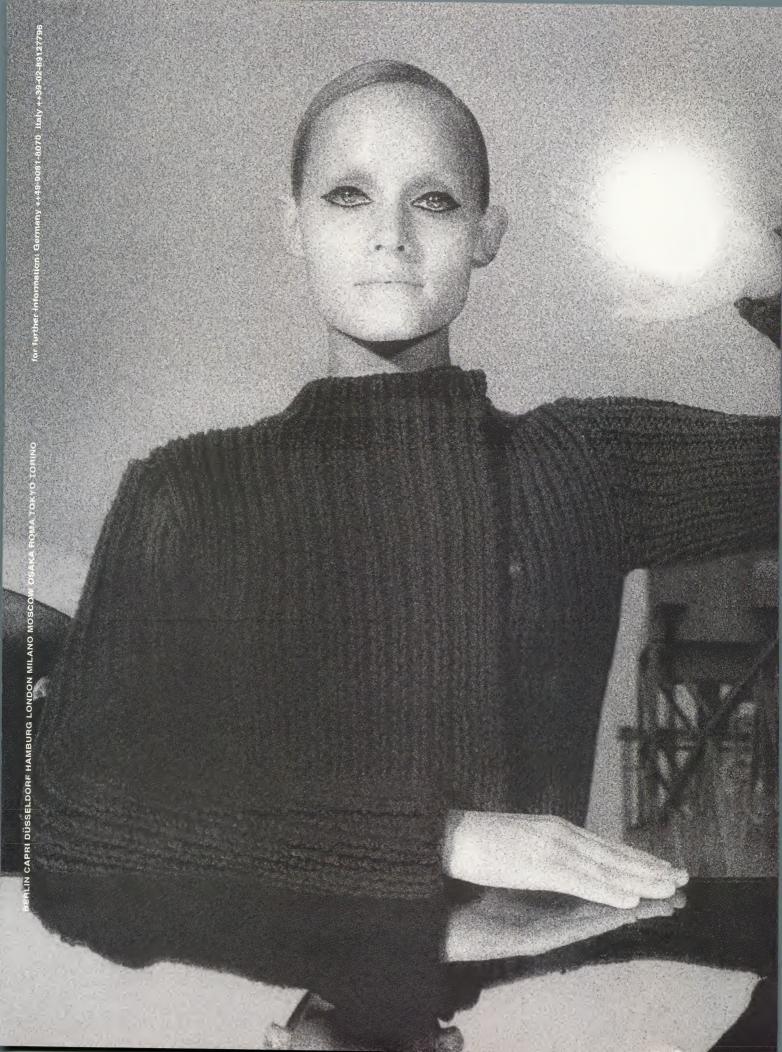
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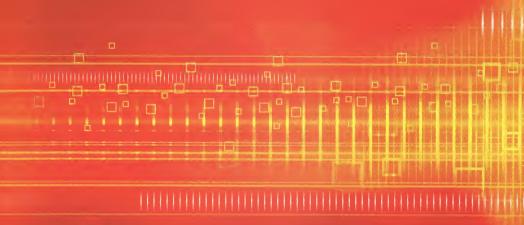
reviews > Digital Video Solutions 36 > Adobe inDesign 75 > Microsoft Intellimouse 77 > HP DeskJet 970 Cxi 78 > Corel Print Office 80 > Photoshop 82 departments > Dare to Ask the Baroness 28 > Online Career Support 94







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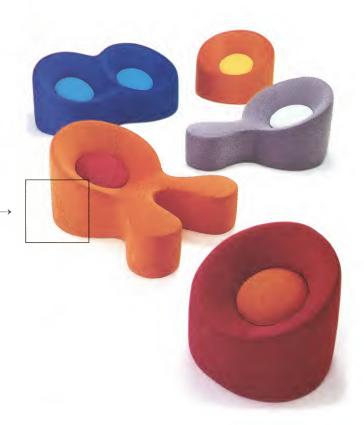
3D CLIP ART	142
3D MODELING SOFTWARE	142
A	
ACCELERATORS	103
ACCESSORIES	107
CACHE CABLES	103
DISPLAY DEVICES	103
HARDWARE	103
PCMCIA	103
POWER PROTECTION	103
PRINTING	103
PROJECTION DEVICES	103
SCS1	103
SECURITY	104
SERIAL INTERFACE	104
SPEAKERS	104
USB HUBS ACCOUNTING	104
EDUCATION FOCUS	104
FILM & TV FOCUS	104
GENERAL OFFICE	104
GRANTS FOCUS	104
INTERNET/WWW FOCUS	104
INVENTORY	104
JOB COSTING FOCUS	104
LEGAL FOCUS	104
PAYROLL FOCUS	104
POINT OF SALE FOCUS	104
REAL ESTATE FOCUS	104
RETAILING FOCUS TIME & BILLING FOCUS	104
ADVERTISING MANAGEMENT SOFTWARE	105
AGRICULTURE MANAGEMENT SOFTWARE	105
ANATOMY SOFTWARE	105
ANIMATION SOFTWARE	105
APPLE SOLUTION EXPERTS	97
ARCHITECTURE SOFTWARE	105
ASTROLOGY SOFTWARE	105
ASTRONOMY SOFTWARE	105
AUTOMOTIVE MANAGEMENT SOFTWARE	105
В	
BACKUP AND RECOVERY SOFTWARE	105
BACKUP AND RECOVERY SOFTWARE BAR CODE SOFTWARE	105 105
BAR CODE SOFTWARE	105
BAR CODE SOFTWARE BIOLOGY SOFTWARE BOTANY SOFTWARE	105 105
BAR CODE SOFTWARE BIOLOGY SOFTWARE BOTANY SOFTWARE C	105 105 105
BAR CODE SOFTWARE BIOLOGY SOFTWARE BOTANY SOFTWARE C CAD SOFTWARE	105 105 105 105
BAR CODE SOFTWARE BIOLOGY SOFTWARE BOTANY SOFTWARE C CAD SOFTWARE CHEMISTRY SOFTWARE	105 105 105
BAR CODE SOFTWARE BIOLOGY SOFTWARE BOTANY SOFTWARE C CAD SOFTWARE CHEMISTRY SOFTWARE COMMUNICATIONS	105 105 105 105
BAR CODE SOFTWARE BIOLOGY SOFTWARE BOTANY SOFTWARE C CAD SOFTWARE CHEMISTRY SOFTWARE	105 105 105 105 105
BAR CODE SOFTWARE BIOLOGY SOFTWARE BOTANY SOFTWARE C CAD SOFTWARE CHEMISTRY SOFTWARE COMMUNICATIONS CONFERENCING FOCUS	105 105 105 105 105 106
BAR CODE SOFTWARE BIOLOGY SOFTWARE BOTANY SOFTWARE C CAD SOFTWARE CHEMISTRY SOFTWARE COMMUNICATIONS CONFERENCING FOCUS DATA, FAX, MODEMS	105 105 105 105 105 106 106
BAR CODE SOFTWARE BIOLOGY SOFTWARE BOTANY SOFTWARE C CAD SOFTWARE CHEMISTRY SOFTWARE COMMUNICATIONS CONFERENCING FOCUS DATA, FAX, MODEMS ELECTRONIC MAIL FOCUS	105 105 105 105 105 106 106
BAR CODE SOFTWARE BIOLOGY SOFTWARE BOTANY SOFTWARE C CAD SOFTWARE CHEMISTRY SOFTWARE COMMUNICATIONS CONFERENCING FOCUS DATA, FAX, MODEMS ELECTRONIC MAIL FOCUS ISDN HARDWARE COMPUTER RESELLERS CONNECTIVITY - EMULATION SOFTWARE	105 105 105 105 105 106 106 106 106
BAR CODE SOFTWARE BIOLOGY SOFTWARE BOTANY SOFTWARE C CAD SOFTWARE CHEMISTRY SOFTWARE COMMUNICATIONS CONFERENCING FOCUS DATA, FAX, MODEMS ELECTRONIC MAIL FOCUS ISDN HARDWARE COMPUTER RESELLERS CONNECTIVITY - EMULATION SOFTWARE MAC TO MS-DOS	105 105 105 105 105 106 106 106 106 106
BAR CODE SOFTWARE BIOLOGY SOFTWARE BOTANY SOFTWARE C CAD SOFTWARE CHEMISTRY SOFTWARE COMMUNICATIONS CONFERENCING FOCUS DATA, FAX, MODEMS ELECTRONIC MAIL FOCUS ISDN HARDWARE COMPUTER RESELLERS CONNECTIVITY - EMULATION SOFTWARE MAC TO MS-DOS MAC TO PC	105 105 105 105 105 106 106 106 106 106 109
BAR CODE SOFTWARE BIOLOGY SOFTWARE BOTANY SOFTWARE C CAD SOFTWARE CHEMISTRY SOFTWARE COMMUNICATIONS CONFERENCING FOCUS DATA, FAX, MODEMS ELECTRONIC MAIL FOCUS ISDN HARDWARE COMPUTER RESELLERS CONNECTIVITY - EMULATION SOFTWARE MAC TO MS-DOS MAC TO PC MAC TO PCP/IP	105 105 105 105 105 106 106 106 106 109 109
BAR CODE SOFTWARE BIOLOGY SOFTWARE BOTANY SOFTWARE C CAD SOFTWARE CHEMISTRY SOFTWARE COMMUNICATIONS CONFERENCING FOCUS DATA, FAX, MODEMS ELECTRONIC MAIL FOCUS ISON HARDWARE COMPUTER RESELLERS CONNECTIVITY - EMULATION SOFTWARE MAC TO MS-DOS MAC TO PC MAC TO PCP/IP MAC TO PICK	105 105 105 105 105 106 106 106 106 109 109
BAR CODE SOFTWARE BIOLOGY SOFTWARE BOTANY SOFTWARE C CAD SOFTWARE CHEMISTRY SOFTWARE COMMUNICATIONS CONFERENCING FOCUS DATA, FAX, MODEMS ELECTRONIC MAIL FOCUS ISDN HARDWARE COMPUTER RESELLERS CONNECTIVITY - EMULATION SOFTWARE MAC TO MS-DOS MAC TO PC MAC TO PC MAC TO PCP/IP MAC TO PICK MAC TO TANDEM	105 105 105 105 105 106 106 106 106 109 109 109
BAR CODE SOFTWARE BIOLOGY SOFTWARE BOTANY SOFTWARE C CAD SOFTWARE CHEMISTRY SOFTWARE COMMUNICATIONS CONFERENCING FOCUS DATA, FAX, MODEMS ELECTRONIC MAIL FOCUS ISDN HARDWARE COMPUTER RESELLERS CONNECTIVITY - EMULATION SOFTWARE MAC TO MS-DOS MAC TO PC MAC TO PCP/IP MAC TO PCP/IP MAC TO PICK MAC TO TANDEM MAC TO TANDEM MAC TO TANDEM MAC TO UNIX	105 105 105 105 105 106 106 106 106 109 109 109 109
BAR CODE SOFTWARE BIOLOGY SOFTWARE BOTANY SOFTWARE C CAD SOFTWARE CHEMISTRY SOFTWARE COMMUNICATIONS CONFERENCING FOCUS DATA, FAX, MODEMS ELECTRONIC MAIL FOCUS ISDN HARDWARE COMPUTER RESELLERS CONNECTIVITY - EMULATION SOFTWARE MAC TO MS-DOS MAC TO PC MAC TO PCP/IP MAC TO PCP/IP MAC TO PICK MAC TO TANDEM MAC TO TANDEM MAC TO UNIX PC TO MAC	105 105 105 105 105 106 106 106 109 109 109 109 109
BAR CODE SOFTWARE BIOLOGY SOFTWARE BOTANY SOFTWARE C CAD SOFTWARE CHEMISTRY SOFTWARE COMMUNICATIONS CONFERENCING FOCUS DATA, FAX, MODEMS ELECTRONIC MAIL FOCUS ISDN HARDWARE COMPUTER RESELLERS CONNECTIVITY - EMULATION SOFTWARE MAC TO MS-DOS MAC TO PC MAC TO PCP/IP MAC TO PCP/IP MAC TO TANDEM MAC TO TANDEM MAC TO UNIX PC TO MAC CONSULTING SERVICES	105 105 105 105 105 106 106 106 109 109 109 109 109 109
BAR CODE SOFTWARE BIOLOGY SOFTWARE BOTANY SOFTWARE C CAD SOFTWARE CHEMISTRY SOFTWARE COMMUNICATIONS CONFERENCING FOCUS DATA, FAX, MODEMS ELECTRONIC MAIL FOCUS ISDN HARDWARE COMPUTER RESELLERS CONNECTIVITY - EMULATION SOFTWARE MAC TO MS-DOS MAC TO PC MAC TO PCP/IP MAC TO PCP/IP MAC TO PICK MAC TO TANDEM MAC TO TANDEM MAC TO UNIX PC TO MAC	105 105 105 105 105 106 106 106 109 109 109 109 109
BAR CODE SOFTWARE BIOLOGY SOFTWARE BOTANY SOFTWARE C CAD SOFTWARE CHEMISTRY SOFTWARE COMMUNICATIONS CONFERENCING FOCUS DATA, FAX, MODEMS ELECTRONIC MAIL FOCUS ISDN HARDWARE COMPUTER RESELLERS CONNECTIVITY - EMULATION SOFTWARE MAC TO MS-DOS MAC TO PC MAC TO PCP/IP MAC TO PCP/IP MAC TO TANDEM MAC TO TANDEM MAC TO UNIX PC TO MAC CONSULTING SERVICES	105 105 105 105 105 106 106 106 109 109 109 109 109 109
BAR CODE SOFTWARE BIOLOGY SOFTWARE BOTANY SOFTWARE C CAD SOFTWARE CHEMISTRY SOFTWARE COMMUNICATIONS CONFERENCING FOCUS DATA, FAX, MODEMS ELECTRONIC MAIL FOCUS ISON HARDWARE COMPUTER RESELLERS CONNECTIVITY - EMULATION SOFTWARE MAC TO MS-DOS MAC TO PC MAC TO PCP/IP MAC TO PCK MAC TO TANDEM MAC TO TANDEM MAC TO UNIX PC TO MAC CONSULTING SERVICES COOKING SOFTWARE	105 105 105 105 105 106 106 106 109 109 109 109 109 109
BAR CODE SOFTWARE BIOLOGY SOFTWARE BOTANY SOFTWARE C CAD SOFTWARE CHEMISTRY SOFTWARE COMMUNICATIONS CONFERENCING FOCUS DATA, FAX, MODEMS ELECTRONIC MAIL FOCUS ISDN HARDWARE COMPUTER RESELLERS CONNECTIVITY - EMULATION SOFTWARE MAC TO MS-DOS MAC TO PC MAC TO PCP/IP MAC TO TANDEM MAC TO UNIX PC TO MAC CONSULTING SERVICES COOKING SOFTWARE	105 105 105 105 105 106 106 106 109 109 109 109 109 112
BAR CODE SOFTWARE BIOLOGY SOFTWARE BOTANY SOFTWARE C CAD SOFTWARE CHEMISTRY SOFTWARE COMMUNICATIONS CONFERENCING FOCUS DATA, FAX, MODEMS ELECTRONIC MAIL FOCUS ISDN HARDWARE COMPUTER RESELLERS CONNECTIVITY - EMULATION SOFTWARE MAC TO MS-DOS MAC TO PC MAC TO PCP/IP MAC TO TANDEM MAC TO UNIX PC TO MAC CONSULTING SERVICES COOKING SOFTWARE D D DATA ACQUISITION SOFTWARE	105 105 105 105 105 106 106 106 109 109 109 109 109 112
BAR CODE SOFTWARE BIOLOGY SOFTWARE BOTANY SOFTWARE C CAD SOFTWARE CHEMISTRY SOFTWARE COMMUNICATIONS CONFERENCING FOCUS DATA, FAX, MODEMS ELECTRONIC MAIL FOCUS ISDN HARDWARE COMPUTER RESELLERS CONNECTIVITY - EMULATION SOFTWARE MAC TO MS-DOS MAC TO PC MAC TO PCP/IP MAC TO DICK MAC TO TANDEM MAC TO UNIX PC TO MINIX PC TO MAC CONSULTING SERVICES COOKING SOFTWARE D DATA ACQUISITION SOFTWARE DATA COLLECTION SOFTWARE	105 105 105 105 106 106 106 109 109 109 109 112 112
BAR CODE SOFTWARE BIOLOGY SOFTWARE BOTANY SOFTWARE C CAD SOFTWARE CHEMISTRY SOFTWARE COMMUNICATIONS CONFERENCING FOCUS DATA, FAX, MODEMS ELECTRONIC MAIL FOCUS ISDN HARDWARE COMPUTER RESELLERS CONNECTIVITY - EMULATION SOFTWARE MAC TO MS-DOS MAC TO PC MAC TO PCP/IP MAC TO DICK MAC TO TANDEM MAC TO UNIX PC TO MAC CONSULTING SERVICES COOKING SOFTWARE D D DATA ACQUISITION SOFTWARE DATA COLLECTION SOFTWARE DATA RECOVERY	105 105 105 105 106 106 106 106 109 109 109 109 112 112 112
BAR CODE SOFTWARE BIOLOGY SOFTWARE BOTANY SOFTWARE C CAD SOFTWARE CHEMISTRY SOFTWARE COMMUNICATIONS CONFERENCING FOCUS DATA, FAX, MODEMS ELECTRONIC MAIL FOCUS ISDN HARDWARE COMPUTER RESELLERS CONNECTIVITY - EMULATION SOFTWARE MAC TO MS-DOS MAC TO PC MAC TO PCP/IP MAC TO PICK MAC TO TANDEM MAC TO UNIX PC TO MAC CONSULTING SERVICES COOKING SOFTWARE D D DATA ACQUISITION SOFTWARE DATA COLLECTION SOFTWARE DATA COLLECTION SOFTWARE	105 105 105 105 106 106 106 106 109 109 109 109 112 112 112 112

INDEX

DISK DUPLICATION DRIVES	112
DISPLAY SYSTEMS - ACCESSORIES	112
V	
E	
ECOMMERCE SOFTWARE	112
ECONOMICS SOFTWARE	112
EDUCATION SOFTWARE	
ADMINISTRATION	112
ELEMENTARY	115
SPECIAL EDUCATION	115
ELECTRICAL CAD SOFTWARE	115
EMBROIDERY SOFTWARE	115
EMPLOYMENT SERVICES	113
ENCYCLOPEDIA	116
ENGINEERING SOFTWARE	
CONSTRUCTION	116
DESIGN	116
HYDRAULIC	116
ENTERTAINMENT SOFTWARE	116
7	
FASHION SOFTWARE	116
FILE MANAGEMENT SOFTWARE	116
FILE SERVERS	116
FILE TRANSFER SOFTWARE	116
FINANCE INVESTMENT SOFTWARE	116
FINANCIAL PLANNING SOFTWARE	116
FINE ARTS SOFTWARE	116
FLASH CARD STORAGE	116
FLOPPY DISKS	116
FONTS	116
FURNITURE DESIGN SOFTWARE	116
TORNITORE DESIGN SOFTWARE	110
G	
GAMES	116
	116
GENERAL INTEREST SOFTWARE	117
GEOGRAPHY SOFTWARE	117
GEOLOGY SOFTWARE	117
GPS AND NAVIGATION SOFTWARE	117
	117
GRAPHICS & DESIGN SERVICES	118
GRAPHICS & DESIGN SERVICES	
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE	118
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H	118 117
Graphics & Design Services Graphics Software H Hairdressing Management Software	118 117 118
Graphics & Design Services Graphics Software H Hairdressing Management Software Health & Nutrition Software	118 117 118 118
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE HISTORY SOFTWARE	118 117 118 118 118
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE HISTORY SOFTWARE UNITED STATES FOCUS	118 117 118 118 118 118
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE HISTORY SOFTWARE UNITED STATES FOCUS	118 117 118 118 118
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE HISTORY SOFTWARE UNITED STATES FOCUS HUMAN RESOURCES SOFTWARE	118 117 118 118 118 118
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE HISTORY SOFTWARE UNITED STATES FOCUS HUMAN RESOURCES SOFTWARE	118 117 118 118 118 118 118
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE HISTORY SOFTWARE UNITED STATES FOCUS HUMAN RESOURCES SOFTWARE I IMAGE INTERPRETATION SOFTWARE	118 117 118 118 118 118 118 118
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE HISTORY SOFTWARE UNITED STATES FOCUS HUMAN RESOURCES SOFTWARE I MAGE INTERPRETATION SOFTWARE IMAGE PROCESSING SOFTWARE	118 117 118 118 118 118 118
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE HISTORY SOFTWARE UNITED STATES FOCUS HUMAN RESOURCES SOFTWARE IMAGE INTERPRETATION SOFTWARE IMAGE PROCESSING SOFTWARE IMFORMATION MANAGEMENT SOFTWARE	118 117 118 118 118 118 118 118
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE HISTORY SOFTWARE UNITED STATES FOCUS HUMAN RESOURCES SOFTWARE IMAGE INTERPRETATION SOFTWARE IMAGE PROCESSING SOFTWARE INFORMATION MANAGEMENT SOFTWARE BIBLIOGRAPHY	118 117 118 118 118 118 118 118
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE HISTORY SOFTWARE UNITED STATES FOCUS HUMAN RESOURCES SOFTWARE IMAGE INTERPRETATION SOFTWARE IMAGE PROCESSING SOFTWARE IMAGE PROCESSING SOFTWARE INFORMATION MANAGEMENT SOFTWARE BIBLIOGRAPHY CONSTRUCTION	118 117 118 118 118 118 118 118 118
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE HISTORY SOFTWARE UNITED STATES FOCUS HUMAN RESOURCES SOFTWARE IMAGE INTERPRETATION SOFTWARE IMAGE PROCESSING SOFTWARE IMAGE PROCESSING SOFTWARE INFORMATION MANAGEMENT SOFTWARE BIBLIOGRAPHY CONSTRUCTION	118 117 118 118 118 118 118 118 118 118
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE HISTORY SOFTWARE UNITED STATES FOCUS HUMAN RESOURCES SOFTWARE IMAGE INTERPRETATION SOFTWARE IMAGE PROCESSING SOFTWARE IMAGE PROCESSING SOFTWARE INFORMATION MANAGEMENT SOFTWARE BIBLIOGRAPHY CONSTRUCTION	118 117 118 118 118 118 118 118 118 118
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE HISTORY SOFTWARE UNITED STATES FOCUS HUMAN RESOURCES SOFTWARE IMAGE INTERPRETATION SOFTWARE IMAGE PROCESSING SOFTWARE IMAGE PROCESSING SOFTWARE INFORMATION MANAGEMENT SOFTWARE BIBLIOGRAPHY CONSTRUCTION INPUT DEVICES	118 117 118 118 118 118 118 118 118 119 119
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE HISTORY SOFTWARE UNITED STATES FOCUS HUMAN RESOURCES SOFTWARE IMAGE INTERPRETATION SOFTWARE IMAGE PROCESSING SOFTWARE IMFORMATION MANAGEMENT SOFTWARE IMFORMATION MANAGEMENT SOFTWARE BIBLIOGRAPHY CONSTRUCTION INPUT DEVICES ACCESSORIES FOCUS	118 117 118 118 118 118 118 118 118 119 119
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H HAIRDRESSING MANAGEMENT SOFTWARE HAIRDRESSING MANAGEMENT SOFTWARE HISTORY SOFTWARE UNITED STATES FOCUS HUMAN RESOURCES SOFTWARE IMAGE INTERPRETATION SOFTWARE IMAGE PROCESSING SOFTWARE INFORMATION MANAGEMENT SOFTWARE BIBLIOGRAPHY CONSTRUCTION INPUT DEVICES ACCESSORIES FOCUS BAR CODE READERS	118 117 118 118 118 118 118 118 118 119 119 119
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE HISTORY SOFTWARE UNITED STATES FOCUS HUMAN RESOURCES SOFTWARE IMAGE INTERPRETATION SOFTWARE IMAGE PROCESSING SOFTWARE INFORMATION MANAGEMENT SOFTWARE BIBLIOGRAPHY CONSTRUCTION INPUT DEVICES ACCESSORIES FOCUS BAR CODE READERS GRAPHICS TABLETS	118 117 118 118 118 118 118 118 118 119 119 119
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE HISTORY SOFTWARE UNITED STATES FOCUS HUMAN RESOURCES SOFTWARE IMAGE INTERPRETATION SOFTWARE IMAGE PROCESSING SOFTWARE INFORMATION MANAGEMENT SOFTWARE BIBLIOGRAPHY CONSTRUCTION INPUT DEVICES ACCESSORIES FOCUS BAR CODE READERS GRAPHICS TABLETS JOYSTICKS	118 117 118 118 118 118 118 118 119 119 119 119
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE HISTORY SOFTWARE UNITED STATES FOCUS HUMAN RESOURCES SOFTWARE IMAGE INTERPRETATION SOFTWARE IMAGE PROCESSING SOFTWARE INFORMATION MANAGEMENT SOFTWARE INFORMATION MANAGEMENT SOFTWARE BIBLIOGRAPHY CONSTRUCTION INPUT DEVICES ACCESSORIES FOCUS BAR CODE READERS GRAPHICS TABLETS JOYSTICKS KEYBOARDS	118 117 118 118 118 118 118 119 119 119
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE HISTORY SOFTWARE UNITED STATES FOCUS HUMAN RESOURCES SOFTWARE IMAGE INTERPRETATION SOFTWARE IMAGE INTERPRETATION SOFTWARE IMAGE PROCESSING SOFTWARE INFORMATION MANAGEMENT SOFTWARE BIBLIOGRAPHY CONSTRUCTION INPUT DEVICES ACCESSORIES FOCUS BAR CODE READERS GRAPHICS TABLETS JOYSTICKS KEYBOARDS LIGHT PEN DEVICES MOUSE	118 117 118 118 118 118 118 118
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE UNITED STATES FOCUS HUMAN RESOURCES SOFTWARE IMAGE INTERPRETATION SOFTWARE IMAGE INTERPRETATION SOFTWARE IMAGE PROCESSING SOFTWARE INFORMATION MANAGEMENT SOFTWARE INFORMATION MANAGEMENT SOFTWARE INFORMATION MANAGEMENT SOFTWARE GRAPHICS TABLETS JOYSTICKS KEYBOARDS LIGHT PEN DEVICES MOUSE REMOTE DEVICES	118 117 118 118 118 118 118 118
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE UNITED STATES FOCUS HUMAN RESOURCES SOFTWARE IMAGE INTERPRETATION SOFTWARE IMAGE PROCESSING SOFTWARE IMAGE INTERPRETATION SOFTWARE IMAGE INTERPRET	118 117 118 118 118 118 118 118
HUMAN RESOURCES SOFTWARE IMAGE INTERPRETATION SOFTWARE IMAGE PROCESSING SOFTWARE IMFORMATION MANAGEMENT SOFTWARE BIBLIOGRAPHY CONSTRUCTION INPUT DEVICES ACCESSORIES FOCUS BAR CODE READERS GRAPHICS TABLETS JOYSTICKS KEYBOARDS LIGHT PEN DEVICES MOUSE REMOTE DEVICES SCANNERS TOUCH SCREEN DEVICES	118 117 118 118 118 118 118 118
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE HISTORY SOFTWARE UNITED STATES FOCUS HUMAN RESOURCES SOFTWARE IMAGE INTERPRETATION SOFTWARE IMAGE PROCESSING SOFTWARE INFORMATION MANAGEMENT SOFTWARE BIBLIOGRAPHY CONSTRUCTION INPUT DEVICES ACCESSORIES FOCUS BAR CODE READERS GRAPHICS TABLETS JOYSTICKS KEYBOARDS LIGHT PEN DEVICES MOUSE REMOTE DEVICES SCANNERS TOUCH SCREEN DEVICES TRACKBALLS	118 117 118 118 118 118 118 118
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE HISTORY SOFTWARE UNITED STATES FOCUS HUMAN RESOURCES SOFTWARE IMAGE INTERPRETATION SOFTWARE IMAGE PROCESSING SOFTWARE INFORMATION MANAGEMENT SOFTWARE BIBLIOGRAPHY CONSTRUCTION INPUT DEVICES ACCESSORIES FOCUS BAR CODE READERS GRAPHICS TABLETS JOYSTICKS KEYBOARDS LIGHT PEN DEVICES MOUSE REMOTE DEVICES SCANNERS TOUCH SCREEN DEVICES TRACKBALLS INTEGRATION SOFTWARE	118 117 118 118 118 118 118 118
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE HISTORY SOFTWARE UNITED STATES FOCUS HUMAN RESOURCES SOFTWARE IMAGE INTERPRETATION SOFTWARE IMAGE PROCESSING SOFTWARE INFORMATION MANAGEMENT SOFTWARE BIBLIOGRAPHY CONSTRUCTION INPUT DEVICES ACCESSORIES FOCUS BAR CODE READERS GRAPHICS TABLETS JOYSTICKS KEYBOARDS LIGHT PEN DEVICES MOUSE REMOTE DEVICES SCANNERS TOUCH SCREEN DEVICES TRACKBALLS	118 117 118 118 118 118 118 118
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE HISTORY SOFTWARE UNITED STATES FOCUS HUMAN RESOURCES SOFTWARE IMAGE INTERPRETATION SOFTWARE IMAGE PROCESSING SOFTWARE INFORMATION MANAGEMENT SOFTWARE BIBLIOGRAPHY CONSTRUCTION INPUT DEVICES ACCESSORIES FOCUS BAR CODE READERS GRAPHICS TABLETS JOYSTICKS KEYBOARDS LIGHT PEN DEVICES MOUSE REMOTE DEVICES SCANNERS TOUCH SCREEN DEVICES TRACKBALLS INTEGRATION SOFTWARE	118 117 118 118 118 118 118 118
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE HISTORY SOFTWARE UNITED STATES FOCUS HUMAN RESOURCES SOFTWARE IMAGE INTERPRETATION SOFTWARE IMAGE PROCESSING SOFTWARE INFORMATION MANAGEMENT SOFTWARE BIBLIOGRAPHY CONSTRUCTION INPUT DEVICES ACCESSORIES FOCUS BAR CODE READERS GRAPHICS TABLETS JOYSTICKS KEYBOARDS LIGHT PEN DEVICES MOUSE REMOTE DEVICES SCANNERS TOUCH SCREEN DEVICES TRACKBALLS INTEGRATION SOFTWARE INTERNET & WEB PUBLISHING SOFTWARE	118 117 118 118 118 118 118 118
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE HISTORY SOFTWARE UNITED STATES FOCUS HUMAN RESOURCES SOFTWARE IMAGE INTERPRETATION SOFTWARE IMAGE PROCESSING SOFTWARE INFORMATION MANAGEMENT SOFTWARE BIBLIOGRAPHY CONSTRUCTION INPUT DEVICES ACCESSORIES FOCUS BAR CODE READERS GRAPHICS TABLETS JOYSTICKS KEYBOARDS LIGHT PEN DEVICES MOUSE REMOTE DEVICES SCANNERS TOUCH SCREEN DEVICES TRACKBALLS INTEGRATION SOFTWARE INTERNET & WEB PUBLISHING SOFTWARE INTERNET SECURITY SOFTWARE INTERNET SECURITY SOFTWARE INTERNET SERVICES	118 118 118 118 118 118 118 119
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE HISTORY SOFTWARE UNITED STATES FOCUS HUMAN RESOURCES SOFTWARE IMAGE INTERPRETATION SOFTWARE IMAGE PROCESSING SOFTWARE INFORMATION MANAGEMENT SOFTWARE INFORMATION MANAGEMENT SOFTWARE INFORMATION MANAGEMENT SOFTWARE GRAPHICS TABLETS JOYSTICKS KEYBOARDS LIGHT PEN DEVICES MOUSE REMOTE DEVICES SCANNERS TOUCH SCREEN DEVICES TRACKBALLS INTERNET SECURITY SOFTWARE INTERNET SECURITY SOFTWARE INTERNET SERVICES INTERNET SERVICES INTERNET SERVICES INTERNET SERVICES INTERNET SERVICES PROVIDERS (ISP)	118 118 118 118 118 118 118 118 118 119
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE HISTORY SOFTWARE UNITED STATES FOCUS HUMAN RESOURCES SOFTWARE IMAGE INTERPRETATION SOFTWARE IMAGE PROCESSING SOFTWARE INFORMATION MANAGEMENT SOFTWARE INFORMATION MANAGEMENT SOFTWARE INFORMATION MANAGEMENT SOFTWARE GRAPHICS TABLETS JOYSTICKS KEYBOARDS LIGHT PEN DEVICES MOUSE REMOTE DEVICES SCANNERS TOUCH SCREEN DEVICES TRACKBALLS INTERNET SECURITY SOFTWARE INTERNET SECURITY SOFTWARE INTERNET SERVICES INTERNET SERVICES INTERNET SERVICES INTERNET SERVICES INTERNET SERVICES PROVIDERS (ISP)	118 118 118 118 118 118 118 118 118 118 118 119
GRAPHICS & DESIGN SERVICES GRAPHICS SOFTWARE H HAIRDRESSING MANAGEMENT SOFTWARE HEALTH & NUTRITION SOFTWARE HISTORY SOFTWARE UNITED STATES FOCUS HUMAN RESOURCES SOFTWARE IMAGE INTERPRETATION SOFTWARE IMAGE PROCESSING SOFTWARE INFORMATION MANAGEMENT SOFTWARE BIBLIOGRAPHY CONSTRUCTION INPUT DEVICES ACCESSORIES FOCUS BAR CODE READERS GRAPHICS TABLETS JOYSTICKS KEYBOARDS LIGHT PEN DEVICES MOUSE REMOTE DEVICES SCANNERS TOUCH SCREEN DEVICES TRACKBALLS INTEGRATION SOFTWARE INTEGRATION SOFTWARE	118 118 118 118 118 118 118 118 118 118 118 119

LANGUAGE SOFTWARE	.123
LCD PANELS	123
LEGAL SOFTWARE	123
LIBRARIES SOFTWARE	123
LIGHTING DESIGN SOFTWARE	123
LITERATURE SOFTWARE	123
M	
MACINTOSH TRAINING	123
MACINTOSH WEB SITES	148
MAIL ORDER COMPANIES	.123
MANAGEMENT SOFTWARE	124
MANAGEMENT SOFTWARE - GENERAL	124
MAPPING SOFTWARE	124
MATHEMATICS - ELEMENTARY SOFTWARE	124
MATHEMATICS SOFTWARE	124
MEDICAL SOFTWARE	124
MEDICINES SOFTWARE	124
MEMORY UPGRADES	124
METEOROLOGY SOFTWARE	
	125
MONITORS & DISPLAY SYSTEMS	125
MULTIMEDIA/VIDEO SERVICES	125
MUSIC AND SOUND EFFECTS SOFTWARE	126
MUSIC AND SOUND HARDWARE	126
MUSIC AND SOUND SOFTWARE	126
MUSIC EDITING SOFTWARE	126
MUSIC SOFTWARE	126
N	
NETWORK - CONNECTORS	126
NETWORKING	
BRIDGES ETHERNET	126
BRIDGES FOCUS	126
CARDS	127
ETHERNET PCMCIA	127
GATEWAYS ETHERNET	126
HUBS ETHERNET	126
NETWORKING CARDS - ETHERNET PCI	127
NETWORKING CARDS - PCI FOCUS	127
NETWORKING SERVICES	127
NETWORKING SOFTWARE	128
NON-PROFIT ORGANIZATION SOFTWARE	128
NUMERICAL ANALYSIS SOFTWARE	128
0	
ONLINE SERVICES - BROWSERS	128
OPERATING SYSTEM SOFTWARE	128
OPTICAL DRIVES	128
OPTICAL TEXT RECOGNITION SOFTWARE	128
OUTPUT	128
0	
P OMES I AVOLUT SOFTHANS	130
PAGE LAYOUT SOFTWARE	128
PHYSICS SOFTWARE	128
PMCIA STORAGE	128
PRINTER - IMAGESETTERS	131
PRINTERS	
DYE SUBLIMATION DEVICES	128
FILM OUTPUT DEVICES	128
INKIET DEVICES	131
LABEL DEVICES	131
LASER OUTPUT DEVICES	131
PLOTTER DEVICES	131
PROOFING SYSTEMS	131
RIP DEVICES	131
SPOOLERS/SERVERS	131
PRINTING & PRE-PRESS SERVICES	131
PROGRAMMING SERVICES	134
PROGRAMMING TOOLS	
APPLE GUIDE	134
APPLESCRIPT	134
ARTIFICIAL INTELLIGENCE (AI)	134
BASIC PROGRAMMING	134
C PROGRAMMING	134
C++ PROGRAMMING CASE PROGRAMMING	134

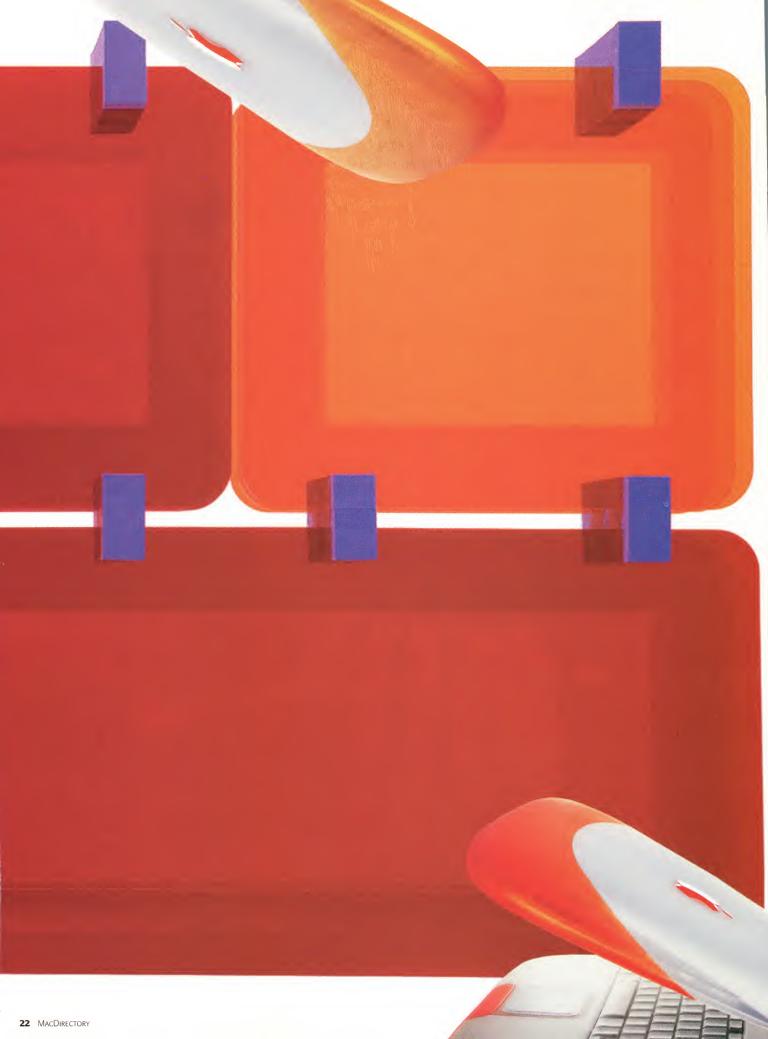
FORTRAN PROGRAMMING	134
GENERAL PROGRAMMING	134
HYPERCARD PROGRAMMING	134
JAVA PROGRAMMING	134
MACINTOSH PROGRAMMING	134
OOP PROGRAMMING	134
PROJECT PLANNING SOFTWARE	135
PROJECTION SYSTEMS	135
PSYCHIATRY SOFTWARE	135
PSYCHOLOGY SOFTWARE	135
PUBLICATIONS	136
PUBLISHING MANAGEMENT SOFTWARE	136
PUBLISHING SOFTWARE	136
0	
Q OHILTING SOFTWARE	136
QUILTING SOFTWARE	136
R	
READING SOFTWARE	136
REAL ESTATE MANAGEMENT SOFTWARE	136
RECORDABLE DRIVES	136
RELIGION SOFTWARE	136
REMOVABLE STORAGE	136
RENTING & LEASING SERVICES	136
REPAIRS	136
RESTAURANT MANAGEMENT SOFTWARE	138
RETAILING MANAGEMENT SOFTWARE	138
REWRITABLE DRIVES	138
c .	
SCANNING SOFTWARE	120
SCANNING SOFTWARE SCHEDULING SOFTWARE	138 138
SCHEDULING SOFTWARE SCHOOL/EDUCATION	138 139
SCHOOL/EDUCATION SCIENTIFIC SOFTWARE	139
SCREEN SAVERS	139
SCREENPLAY/MOVIE WRITING SOFTWARE	139
SCRIPT WRITING SOFTWARE	139
SECURITY SOFTWARE	139
SEPARATIONS & CALIBRATION SOFTWARE	139
SIGNMAKING SOFTWARE	139
SOCIAL SCIENCES SOFTWARE	139
SPORTS SOFTWARE - BASEBALL	139
SPORTS SOFTWARE - FISHING	139
SPORTS SOFTWARE - GOLF	139
SPORTS SOFTWARE - SHOOTING	139
STATISTICS SOFTWARE STOCK PHOTOGRAPHY SERVICES	139
STOCK PHOTOGRAPHY SERVICES STORAGE AND DRIVES	140 141
STORAGE AND DRIVES - HARD DISKS	141
DINVES TINKO DISKS	-11
T	
TAPE DRIVES	141
TECHNICAL SUPPORT ASSISTANCE	
(for hardware/software companies)	141
TEXT PROCESSING SOFTWARE	142
TEXTILE SOFTWARE	142
TRADE SHOWS AND SEMINARS	142
TRAINING SERVICES	144
TRAINING SOFTWARE	146
TRANSLATION TYPING SOFTWARE	146
TYPING SOFTWARE	146
U	
USED EQUIPMENT	147
USER GROUPS	147
V	
VETERINARIAN SOFTWARE	147
VIDEO DEVICES - HARDWARE	147
VIDEO EDITING SOFTWARE	147
VIDEO RECORDING DEVICES	147
VIRUS PROTECTION SOFTWARE	148
w	
WORD PROCESSING SOFTWARE	148
SESSIO SOFTWIKE	
Z	
ZOOLOGY SOFTWARE	148



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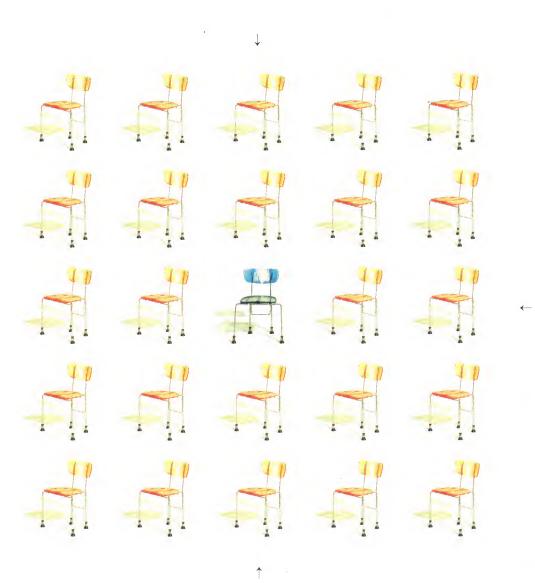
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SUPPORT

tech goddess > the Baroness

Baroness, I can't open Internet Explorer 4.5. My computer crashes. I have set up a number of panels users and when I try Explorer my Mac freezes. Help! LINDA DOVIANY, NJ

Steve Jobs is just trying to get back at Microsoft and there is nothing you can do. Just kidding Darling...

Some Microsoft applications, including Internet Explorer 4.5 and Office 98, will open an installer the first time they are run. This application attempts to place items in the System Folder, to which the user may not have access privileges causing the crashes.

Darling, since I installed Barbara Streisand's "If you Ever Leave Me" as an Alert Sound, my life has changed. Simply install a music CD in your Mac. Copy and save a music sample to your desktop then drop the sound on your system folder. It will install it automatically. But this will only work if the sample is system compatible, if not, you will need to convert the sample first with a conversion program such as Kaboom

www.novadevcorp.com/products/kaboommac/index.html

Baroness. I am a sexually active 26 year old woman but this is ridiculous. My G3 makes a terrible vibration noise and my neighbors are getting the wrong picture. It

EYEBROWS ARE BEING RAISED. MACDIRECTORY'S NEW MATRON SAINT, THE BARONESS IS NOW PROVIDING FIERCE FREE SUPPORT, BE IT TECHNICAL OR PERSONAL TO MAC USERS AROUND THE WORLD. PERHAPS YOU'VE SEEN HER AROUND. HER FILM CREDITS INCLUDE PICTURES OF BABY JANE DOE AND THE LUNACHICKS. SHE HAS ALSO BEEN SEEN ON THE LITTLE SCREEN ON FOX IN NEW YORK UNDERCOVER, IN CYNDI LAUPER'S REMAKE VIDEO OF GIRLS JUST WANNA HAVE FUN. SHE ALSO APPEARED ON THE FASHION PAGES OF ITALIAN GERMAN AND FRENCH VOGUE AS WELL AS L'UOMO VOGUE. TO SPEAK WITH THE BARONESS. GO TO: WWW.MACDIRECTORY.COM (GO TO TECH SUPPORT SECTION)





Also make sure that you give your users access to the Microsoft First Run application. When you set up multiple users it is likely that you gave the user access to the Microsoft application, but did not give access to them.

Try this next time... Launch any Microsoft applications (Internet Explorer, Excel, Word and PowerPoint) at least once from the owner environment before giving a Limited or Panels user access to that application.

By the way, this can also happen with other programs that have similar installation process. It is a good idea to install applications from the Owner Environment and to make sure each application runs correctly in the owner environment before giving other users access to the application.

Baroness I am tired of Apple's Alert Sounds that came with my Mac. They are tired. Can I change them? W. THOMAS, NJ vibrates when I place the monitor on top and even when I run a CD-ROM video. Nancy DE Santo, CA

If you really want to stop the vibration, you can get a "rubber bumper" to install along side your CD...or send your G3 to me and I will have some fun! Keep in mind that when you place the monitor on top of your Macintosh lid, this will make it curve down causing it to press against the fan and drive. So be sure that there is ample clearance between your computer's fan and the base of the monitor. In addition, extremely dirty fans will make noise and emit a noticeable vibration. Buy a can of compressed air and blow the air inside your system.

Dear Baroness, my monitor has gone blue! My Apple Multiple Scan 15 Display only shows blue and I have no red color. What should I do? MARK BODINE, VA

Mark, Apple had a repair extension issued specifically for 15" Multi Scan Monitors that would have one of their RGB devices go out (change color). The repair extension expired



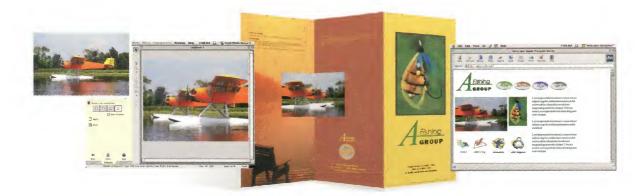
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in mid-September for this program, so Apple will not fix them for free anymore. However, they did state that they would handle issues on a "case by case" basis. Your best bet would be calling customer service at 800-767-2775.

→ Baroness I purchased an iBook and I want to hook-up my scanner and Zip drive. How can I do this? CAROL GOLDBERG

Darling, since the iBook does not have a SCSI port be prepared to spend some money. Apple does not intend to develop an adapter or cable that would translate SCSI signals to USB or vice-versa. The good news is that a number of third-party companies have developed adapters.

Among the vendors manufacturing a SCSI to USB adapter are Ariston Technologies (iSCSI Adapter- www.ariston.com)
Microtech Intl. (USB XpressSCSI - www.microtechint.com) and my favorite Adaptec (USBConnect 2000 - www.adaptec.com).
Also check out Newer Tech. (uSCSI www.newertech.com)

You might also receive a message stating, "No Driver Found." This will happen if your iMac looks in the System Folder for a driver for the USB device you just connected but could not find it. If you get this message, you may have forgotten to install the software that came with the device, or you may have put the device driver (i.e., the software that allows iMac to recognize and communicate with the USB device) in the wrong place in your System Folder.

Simply, reinstall the software driver from the CD-ROM that came with the product, or download and install the driver from the product vendor's web or FTP site on the Internet.

Baroness I am frustrated and don't know what to do! My G4 crashes unexpectly when I am using Photoshop. Help me before I go crazy! MARTHA WINLDELER, NY

Martha, go out and have a drink. A few months ago, during testing, Apple has discovered a problem which causes data corruption and system crashes in certain situations on Power Mac G4 (PCI Graphics) systems. I tried to find out excatly what the problem was but Apple Support would not return my phone calls. However, Apple has released a G4 ROM 1.8.1 Update that should help you.

It will help you if Photoshop crashes, when Extensis Photo Tools is installed, and with Data or file corruption with Virtual Memory on. Check out the Apple web site (http://asu.info.apple.com/swupdates.nsf/artnum/n11533) and follow the installation instructions (you will need MacOS 8.6). Download it to your hard drive and then double-click it to mount the compressed disk image on your desktop.



"I will remain your loyal fan and supporter- if not subject."
Tim, Western Washington University.

→ Baroness. Those dam system errors continue to appear on my USB device. I receive the following error message, "Not Enough Power to Function" Translate! LUCINDA GIGES, IL

Girlfriend, the Mac OS will generate a Not Enough Power to Function message if a device attempts to draw too much power from the USB bus; one or more devices plugged into a hub requires more power than is available, or if you've attached a self-powered device (like a printer or floppy drive) and forgot to plug it into an electrical outlet.

If you're using a self-powered device, check to see if the device is plugged into an electrical outlet. If not, try connecting the device directly to your iMac or to a port on a self-powered hub. If you're connecting the USB device to a self-powered hub, make sure the hub is plugged into an electrical outlet.

Baroness, I am having trouble starting up my G3. I tried everything but the problem continues. Youn CHENEY

Darling, there may not be enough memory to load all the system software extensions you've installed. Restart the computer, holding down the Shift key until you see the message "Extensions Disabled." Then try the following: Turn on (or increase) virtual memory in the Memory control panel. Your Mac will perform well with virtual memory set to no more than twice the amount of RAM in the computer. Reduce the size of the disk cache in the Memory control panel. However, do not set the disk cache below 256K. This should help but If the problem persists, don't be cheap and buy additional RAM.

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ICYBER SEX

Wanna Cyber > Macs in the Cybersex World BY RISA KARAVIOTIS

WHEN MOST PEOPLE HEAR THE TERM "CYBERSEX," THERE ARE CERTAIN SETS OF IMAGES THAT COME TO MIND. IT HAS BEEN ASSOCIATED WITH IMAGES OF PEDOPHILIA, FAMILY FILTERS, ABDUCTIONS, DANGER, QUESTIONS OF FIDELITY, AND ABOUT 2 MILLION DIFFERENT AOL CHAT ROOMS, IRC CHANNELS, AND ALT.SEX NEWSGROUPS.

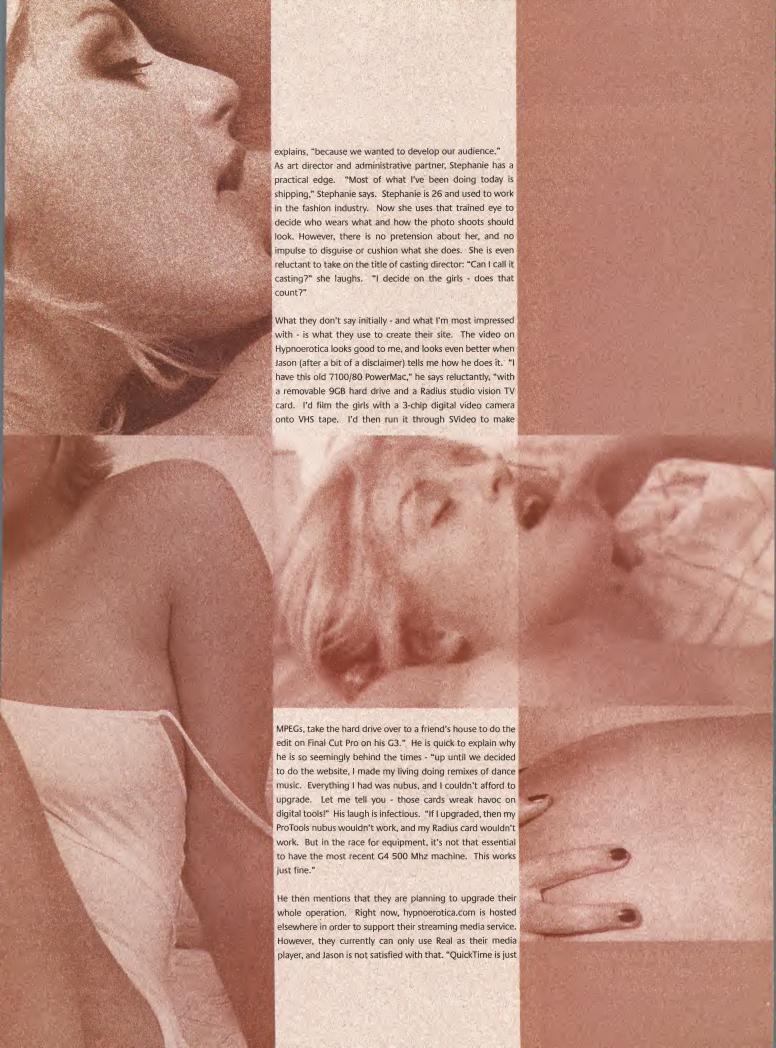
While no one will deny that those aspects exist, there are less publicized but far more healthy areas in the cybersex world. In this day and age of AIDS, some would argue that cybersex is a safe and sane way of practicing whatever they wish. Others claim that despite the horror stories, cybersex allows more perpetrators to stay off the street (and spend their money on the net). Where is the line in all of this? Many people make their moral judgments without ever knowing the people behind the pornographers, perverts, and practitioners... So MacDirectory decided to find them.



→ Pornographers

Stephanie and Jason, the people behind Twelve 22 Entertainment, are well spoken and engaging. They claim that most of their site management involves "arguing with people," and that the process for creating and maintaining a porn site is mainly administrative. Hypnoerotica.com, their website, is pornography focused on the goth and fetish scene, a niche that Stephanie said isn't often represented among porn sites.

"We started our site with \$600 and three weeks of time," Jason, a 27-year-old musician, says. "Most of the money was spent on the merchant account and duplicating the first 100 videos. Then we sat down with Dreamweaver and Photoshop and learned them in a week. We learned how to program in perl for the shopping cart, and then we were ready to go!" They are currently in the process of creating a membership-driven site - for the past few months, the pictures on their site have been free and they gain profit through video distribution. "We decided to get out there before we started charging membership," Stephanie



much better," he states. "I would definitely choose QuickTime over RealVideo or RealAudio." In order to support QuickTime streaming, Jason is planning on bringing everything in house. "Now we're ready to invest in a new machine - get a G3 server and run OS X on it. OS X is supposed to have good security, and it will stream QuickTime video for us." Making sure they have enough bandwidth and storage is also an issue. "I'm getting two 10GB Cheetah drives, and I'll probably have to get the most expensive ADSL line out there."

Both of them comment that cybersex as a practice "doesn't cut it" for them. Jason adds: "I need visuals or real women in front of me I guess." Our conversation finally winds down in talking about the typical image of a pornographer. "We're not these greasy guys sitting in an office somewhere, saying "Where's the next slut?" Then they both break out into their vivacious laughter. "At least, we hope we're not!"

→ Perverts

On the discussion board on www.nin.com, 'inkfreak' posts "why is it...that whenever 'aijima' shows up, it feels like my breasts are getting bigger?" This is several posts after she comments about the same person, "maybe he'll get the hang of being a bottom after all." These posts flourish in what the residents fondly call the "Jizz Board" or "cum-colored room," one of four color-coded sections of the *nin.com* discussion forum. The management of Nine Inch Nails, the band for whose fans this discussion board was created, did not foresee what would be done with it. The fans seem to have taken over this section of the discussion board and turned it into a private fetish club, whose patrons flirt outrageously and where sexual domination and submission is discussed freely. The board was designed with a private message function when someone sends a note to another username, it is announced in the recipient's browser: "you have a private message." Users can send private messages to the band members, the sound engineers (who brag on the board about their new PowerBook G3s), and the webmaster himself. However, the amount of personal correspondence that goes public is striking, and nowhere is it more obvious than in the sensual teasing that goes on in the yellow room of nin.com. They have created an IRC channel on EFNet, exchanged email addresses and AIM or ICQ numbers, and still the teasing goes on in this particular forum.

This is one of the odd aspects of cybersex - the ability to enjoy voyeurism or not, as the case may be. Each person who posts their ideas, their dreams, their fantasies, and their plans are performing in front of an audience - an audience that includes one of their favorite artists. Some other users have complained about the change in the board from plain musical discussion to "watching perverts write each other Internet porn." However, in this place there is absolutely no censorship of content, and therefore the sexual games continue.

It is a common thing to have net.geeks take over offered areas and make them into mini-communities - it is less common to have such an arena turned into this kind of playpen. However, in the anarchy of the .net, there is space

for everyone and here it is no different. The sex play does not seem to roll over into the other three boards, and as a result the discussion is also less.... lively. The self-proclaimed perverts keep their area and enjoy themselves....and their favorite artist, on his own G3, posts messages in another room.

→ Practitioners

Hellsop and Sabine live in Milwaukee, *Wisconsin*, but half of Sabine's stuff still lives in Rochester, New York. Hellsop and Sabine met on one of the many channels scattered on IRC. Both of them had been married before, and had broken off their respective relationships long before meeting each other. They met and became friends on IRC, and then started on the path of a long-distance online relationship. Before long, they had decided to merge their households. Now, sharing Hellsop's PowerMac, they talk about how it started.

MacDirectory: So I want to start with how you two realized you were falling in love. Sabine: He was on a business trip and I didn't think he'd be able to come online all weekend. Hellsop: To Atlanta. Sabine: But he got online from his hotel room and he was looking for me... Hellsop: After fighting with the hotel phone system for about two hours. Sabine: And we were SO GLAD to see each other it surprised us! He started getting flirty, joking about taking bubble baths and things which he hadn't done before. And I went "ding!" I like this guy...and I think he likes me. Hellsop: Very much. It was a real relief to have made it back online and to be able to talk with Sabine again.

MacDirectory: So once it clicked, did you talk about it, and what it would mean for you? Sabine: Well, first we "felt each other out" a bit more, started tentatively flirting more.

Hellsop: Kind of a sudden realization that I had been struggling to make this happen, and this was the reason for it. Sabine: And then I pestered him to phone me and he was REALLY shy about it! Hellsop: Phones are harder. No one stutters on-line. Sabine: We realized we both felt the same way...and we already had the plans to see each other. We would be online together ALL DAY then he would call me before he went to bed.

MacDirectory: When did it start to get sexual between you two? Sabine: It started out with a conversation asking if we fantasized about each other, I think? And we described ourselves physically and what we thought about. It also evolved from our online action words...like "Sabine pets" "Hellsop purrs" and started edging into kisses and caresses. Hellsop: Once there's a mental image, and the feeling, then taking things to a physical, and the sexual level follows pretty easily. Especially with someone as wonderful as her.

Sabine: We both seemed to be thinking/feeling the same way, and the sex talk naturally flowed. Though at first I

couldn't on the phone! It was easier on IRC, more relaxed. Hellsop: Typing is a lot easier than talking on the phone. Not so much that the words are a barrier or a shield to hide behind, but that what's meant is what's said. No getting flustered or anything to get in the way. No worries about whether there's spinach in one's teeth. <CONTINUED ON PAGE 34>



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Sabine: When we first met, the whole IRC channel held my hand while I waited for him to get there...the car drove up and I ran down to meet him. I stole his hat, ran back upstairs and typed "he's CUTE!!!" and logged off.

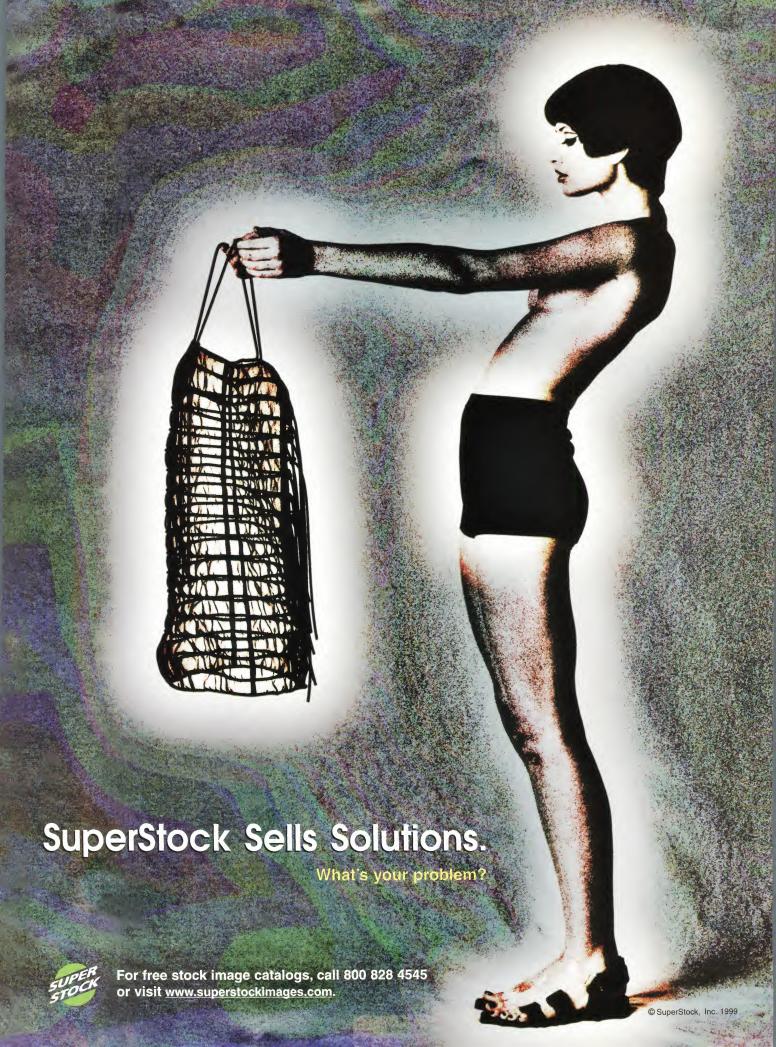
MacDirectory: So how long did it take you to feel comfortable? Hellsop: About four minutes. Maybe three. Sabine: And we talked for a little, and I gave him the house tour. And uhm. (pause.) Net.sex is great foreplay! Hellsop: After all, it's not like this was meeting a stranger. We'd known each other very well for weeks and weeks. We just hadn't SEEN each other yet. Sabine: And I am not normally like that. It felt like we had known each other forever. It felt like we were already involved and that we were reuniting after an absence, more than the first time we were meeting each other. Hellsop: Well, we'd already talked about all the things that people usually waste dinner dates talking about. And it was very much like a homecoming, yes... Sabine: And when he left we both missed each other terribly. Hellsop: Extremely. Sabine: We were really unhappy apart. Hellsop: Enough that the planned interval between visits got shortened drastically.

MacDirectory: Were there any big differences in how you were in person and how you were on IRC? Hellsop: Very few differences between Sabine online and Sabine real. Sabine: Hellsop is a little quieter in person sometimes...but his expressions, sense of humor, affection, and personality are all the same. Hellsop: The only thing that was noticeable is that we both suddenly had to deal with things that we'd been able to brush aside or not mention on-line. Like eating or going to the bathroom. So we'd tend to forget about taking care of them, because we weren't used to dealing with them. Sabine: And I could kiss him and hold him and inhale his scent, which is an advantage of real life.

MacDirectory: Finally, how have things changed online now that you're together? Sabine: We still message each other with smooches and things even at work, but we don't net.sex anymore. Real is better. Hellsop: Life's more interesting, overall. >



ABOUT > RISA DESCRIBES HERSELF AS A "WRITER, WOLFPUP, AND DORKY DOG MOM." SHE HAS WRITTEN FOR GOTHIC.NET AND BONETREE.COM, AND IS CURRENTLY TRAINING HER PUPPY TO USE THE MAC.





When Steve Jobs took to the stage in early October to announce Apple's new line of iMacs, including two "Digital Video" models, he summoned up his best showman's voice to announce the latest revolution in personal computing. Apple is doing now for desktop video what it did ten years ago for desktop publishing. For around \$2,000, you can now assemble a full-blown digital video production system centering around a Mac and a digital camcorder. The picture quality is great, editing flexibility endless, and a whole new breed of digital storytellers are finding ways to shoot, produce and distribute their tales on tape and over the Net. So how do you get started?

Scene I →

Beta ... VHS ... DV? Technology has always been a land of acronyms and terminology. ADB, SCSI, USB, VGA, ISP ... the list goes on and on. By now, almost everyone who reads this will be familiar with a few more video-related buzz words of the 1980's: VHS and Beta. While VHS and its high-quality sibling, S-VHS, are still on the scene, a new wave of

digital tape formats has given birth to the video editing revolution.

The most important new tape to you is Mini DV, a high quality tape that's about two-thirds the size of an ordinary audio tape, costs about \$15 for 90 minutes of recording time. The affordability and portability of Mini DV media has led to a flood of consumer camcorders made by companies like Canon, JVC, Panasonic, and Sony over the past three years. The tiniest models such as Sony's PC-1 will actually fit in the palm of your hand. Though pricier digital formats such as DVCAM and Digital Betacam are the tapes of choice in broadcast television production and other professional applications. Mini DV provides quality good enough to be shown on cable TV and even in the movies. Recent major movies such as "Buena Vista Social Club," "The Celebration," and "The Cruise" were shot partially or entirely on Mini DV, and then transferred to film in post-production. So if you can get your hands on a digital camcorder, and you've got

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the talent, there's nothing standing between you and Hollywood except maybe for a few shady agents and lawyers...

MINI DV →

What's also great about Mini DV is that it compresses your video into digital files that are easily transferred to your computer via an "IEEE1394" interface. Forget the acronymns — just call it Firewire. Firewire is a new data transfer protocol, much like SCSI, but superfast and super easy (its hot-swappable, with no ID numbers), and Firewire ports are standard equipment on DV camcorders, as well as on the new breed of iMac DV, DV SE, and Power Mac G3/G4 computers.

With DV and Firewire, high quality, full screen video can be sent from camera to computer, edited on standard hard disks, and sent back out to tape or published to the Web with virtually no loss of quality and for a fraction of the cost of buying your own television studio.

A good quality DV camcorder can be found at your local electronics or photo store (or check reputable mail order houses) and will set you back anywhere from \$700 to thousands of dollars. When shopping for a digital camcorder, there are a wide range of options to consider, but start with these few basics:

Size & Design: DV camcorders are generally small enough to be cradled in one hand. While the thiniest of the machines — "palmcorders" — are sexy technological marvels, what palmcorders offer in "James Bond factor," they lack in balance and stability, especially for the first-time user.

Microphone: Many DV camcorders can capture surprisingly good audio with the built-in mic, but some poorly designed models place the mic under where your thumb or fingers naturally rest during recording, rendering that great microphone virtually useless.

← FINDING A CAMERA

Digital Image Stabilization: To offset the shakiness that plagues most video shot with handheld cameras, most DV cams now feature a stabilizing mode. For even better results, though, nothing beats using a quality tripod.

Analog I/O: Don't throw those old VHS and Hi-8 tapes out just because the world's going digital. Look for a camcorder with analog (RCA and S-VHS) inputs and outputs to convert your older tapes into a digital format for editing. Use those same analog jacks to dub some low-cost VHS copies of your projects for family, friends and those shady Hollywood agents.

Picture Quality: Mini DV allows for exceptionally sharp images with vivid colors. You can, however, expect to get a better picture when you jump from an entry-level (\$700-\$1,000) to slightly more expensive (\$1,200-\$1,500) model with a superior lens and optics system. Better still are the three-chip (3 CCD) cameras, which employ separate electronic chips to capture Red, Green, and Blue light. Three-chipmodels start at around \$2,000 (for Sony's TRV-900) and go up to \$3,500 for Canon's XL-1, the only Mini DV camcorder with interchangable lenses. Also consider Sony's Digital 8, a low-cost proprietary format capable of playing older Hi8 tapes as well as the new D8 media. Digital 8 camcorders are equipped with Firewire I/O ports for editing on your Mac.

Scene III → Capture, Edit and Make Magic

So you got your camcorder, took it with you on vacation, and are back at home with your trusty Mac and a nice little stack of DV tapes just crying out for some nifty transitions, titles and background music.

What now? Not so long ago, you'd be leaving your trusty Mac behind to head out to a fancy editing studio, equipped with a NLE system, most likely an Avid. NLE stands for Non Linear Editing, which is to video what the word processor became to writing: the ability to cut and paste information instantaneously. All you need is your Firewire-ready Mac, a Firewire-equipped camcorder and some editing software. If you have a new iMac DV or Power Mac (a "Blue and White" G3 or G4), you'll find two Firewire ports already installed and ready to go. Owners of older Macs can purchase a Firewire card that fits in a vacant PCI slot for around \$175. Once you've got your camcorder and your Mac talking to each other via Firewire, there's just one piece of the puzzle left: Editing Software.

Each of the packages reviewed in this article does at least the three basics: capture (bringing your video from tape into the computer), edit and output, and while our review by no means covers all of the choices out there, it's a good sampling of the key players in the editing software market (under \$1,000). For free and shareware rough cut editors, you can always search your favorite shareware Web sites, starting with www.shareware.com.

If it's a high-end professional editing system you're after, check out Avid (avid.com) and Media 100 (media100.com) for starters. Promax (promax.com) is a well regarded reseller of turnkey video editing systems for professional and semi-pro use, and user groups like the World Wide Users' Group (wwug.com) and 2-pop (2-pop.com) are great resources for finding user reviews and opinions of products.

EDITING SOFTWARE ROUNDUP

Entry-Level: Avid Cinema 1.3 & Apple iMovie 1.0

Well known for their professional editing suites, Avid has also entered the consumer editing market with Avid Cinema 1.3 (list price S219), a low-cost solution for analog camcorder owners with an iMac o rUSB-equipped Power Mac. This package includes Avid Cinema editing software and a nifty little analog video-to-USB conversion box. The box, which connects in seconds, lets you capture analog video into QuickTime formats suitable for multimedia presentations, publishing on the Web or sending via email. Editing is a snap with the storyboard interface which includes several templates for common home movies such as Birthday Parties and Graduations, and guides you through adding titles and music. It even provides tips on planning your shoot before you've loaded up the camera! The program is easy to learn and use, and the included manual and online help are clearly written.

Publishing templates are provided for various email and Web formats, including QuickTime and Real G2, and if you've got a Power Mac with a built-inA/Vcard capable of video-out, you can print to videotape, as well.

Final Cut Pro



Professional video without hassle or high costs.

Final Cut Pro software combines professional editing, compositing, and special effects capabilities in one affordable, flexible, highly productive program. Just connect your computer to a camera that has DV and FireWire connections, and you've got a complete personal video workstation for less than a tenth of the price of competing systems.

Final Cut Pro features a comprehensive set of editing tools to turn your video and audio into a well-polished production. And you can output your final video to any QuickTime-supported format for distribution, including broadcast, web streaming and CD-ROM.

For more information visit us at www.apple.com/finalcutpro



Avid Cinema is limited, and designed primarily for making videos to be watched on a computer (not on tape), but if you've got an analog camcorder and want to send video across the Web for cheap, this is a good solution.

Along with its new line of iMacs, Apple announced a new video editing software. Packaged with the iMac DV and DV SE models, iMovie 1.0 is an easy-to-use solution for capturing, editing, and outputting DV movies. Similar in design to Avid Cinema, iMovie comes with preloaded with a number of transitions and sound effects, and has a built-in title generator. iMovie lets you print your finished master piece to tape via Firewire, or export the movie to a QuickTime file. One annoyance with iMovie, though, is its inability to import QuickTime files. Still images can be imported as PICT files, but video can only be brought in straight from DV.

Sound, on the other hand, can be recorded through the iMac's built in microphone, imported from an AIFF (Audio Interchange File Format) file, or sampled from CD. As of press time, iMovie is only available with the purchase of one of the aforementioned iMac computers, and Apple has not announced plans to sell the software as a stand-alone product.

Mid-Range: Strata Videoshop 4.5

Ever since I bought a Power Mac 8600 a few years ago and it came packaged with Strata Videoshop 3.0, I've been a fan of this feature-packed program. Strata Videoshop 4.5 (\$249 list price) can't do all of the professional things that it's more expensive counter parts can, but it does a lot for the price, and does it all pretty well. Digitizing is simple, and Videoshop supports NTSC (North American), PAL (European) and 16:9 (widescreen) DV, as well as analog capture cards.

Standard video editing features, such as a scalable timeline editing window, clip-by-clip editing, and audio rubberbanding (changing the volume of audio tracks in the middle of a clip) are well designed and fully functional. Strata has included over 20 audio filters and some 50 transitions, many of them quite useful and fun to play with. A solid titling program is also incorporated into the package, and there's also a good tutorial for first-time users. For it's list price of under \$250, this list of features would make Videoshop 4.5 a great value for the video hobbyist or semi-pro on a budget.

Strata took things a few steps



WWW.ADOBE.COM/PRODUCTS/PREMIERE/MAIN.HTML

further, including a basic compositor and support for 3-D special effects (think "Video Cubes") in the mix. Videoshop's rendering times aren't blazing fast, but when it comes to the whole package, Videoshop gives the hobbyist looking for editing creativity and high-quality output an incredible amount of bang for the buck.

Prosumer Editing: Adobe Premiere 5.1, ← Apple Final Cut Pro 1.0.1 and Radius EditDV 4.6

With the growing number of high quality DV camcorders has come a need for professional quality editing software suitable for the videographer or editor who wants to make a business out of his/her craft, but affordable enough to market to the well heeled enthusiast. In the \$800-\$1,000 price range, one should expect an editing package to include sophisticated features such as the following:

- Video Capture Control, including software-based vectorscope. This will allow you to easily digitize the footage you want while skipping unnecessary portions. Remember, DV files are big (figure 13 GB of hard drive space for an hour of audio/video) and while IDE drives are relatively cheap, a little efficiency still goes a long way

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These three packages are similar all offer interfaces and features with a slick, professional feel, and each is capable (in the right hands) of turning raw footage into a tightly knit video with titles, effects/transitions, and accurate color and sound.

Adobe Premiere (\$899 list price) has long been the industry standard in desktop video editing software. Version 5.1 sports a refined interface in line with those found in Adobe's popular graphics packages, including After Effects, Illustrator and Photoshop. While I personally have never been the biggest fan of Premiere's look and feel, finding version 4 a bit clunky and unintuitive, this update is easier to learn and use, and Adobe-standard features such as the Navigator Window

(a graphical overview of



WWW.STRATA.COM/HTML/VIDEOSHOP.HTML

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Final Cut Pro

your project for quick zooming) are nice touches unique to this software. Premiere 5.1 also supports animated GIF and MPEG output for the Web, can export EDLs, and features solid titling and color keying components. The program's plug-in architecture supports a number of third-party software effect add-ins. If you're a fan of Adobe's interface design, or simply looking to upgrade from an earlier version of Premiere, version 5.1c is a solid choice in DV editing. A new player in the video market is the much-hyped Apple Final Cut Pro (\$999 list price). Just a baby, at version 1.0.1, Final Cut Pro is already living up to its billing as an affordable, all-in-one editing/compositing solution. The package sports the futuristic look common to Apple's QuickTime 4 software, and Final Cut Pro's editing interface is sleek and very functional once you get a handle on its myriad functions. Long form editors will appreciate the ability to split programs into sub programs for easier editing and management, and editors also have good control over the look of their editing timeline and clipbins. Clips can be edited in their own viewer windows, via trim edits on the timeline, or by way of a two-monitor for frame matching. Your running project appears in a Canvas Window, and Canvas and Viewer windows feature a handy jog/shuttle "With the right tools and vision, you can make it to Hollywood" dial for precise frame-by-frame movement through your work. The final product can be output to tape, or exported to a number of Web-ready files, including Apple's new 00. 08. 60 QuickTime Streaming format. The fun really starts when you get past standard editing functionality and dive into Final Cut Pro's compositing and FXBuilder features. The software allows you to combine those multiple layers of video using methods such as luminance and color keying, (roughly speaking, this is "bluescreening," the method used to put the TV weather person in front of a computerized weather map) and supports video masking using standard or hand-drawn Bezier masks. What this means is that for under \$1,000, your full-featured editing suite also functions as a fairly sophisticated compositing package along the lines of Adobe's After Effects (which lists for \$999 itself), giving you awesome special effects creativity. 00.00 2 In fact, Final Cut Pro supports a number of third-party After Effects plug-ins. Another feature unique to Final Cut Pro is the FXBuilder, which allows editors to build custom libraries of special effects scripts which can be applied to audio/video clips, saved for future use, and even traded with other Final Cut Pro users via disk or email. Final Cut Pro's major drawback is rendering time. However, Apple claims that version 1.2 update will significantly speed up rendering times, especially for G4 users. Radius EditDV 1.6.1 (\$999 list with Firewire PCI card, \$899



for software only) sports a somewhat cleaner, more straight forward interface than Final Cut Pro or Premiere. EditDV supports all of the prosumer editing features found in the other packages, including batch digitize, PAL and 16:9 format support, multiple format exporting, EDLs, and built-in transitions, keying and titling of your videos.

What really sets EditDV apart, however, lies behind the scenes. Radius (now a subsidiary of Digital Origin) uses a proprietary software codec for dealing with DV files in its software. EditDV, in fact, also installs a piece of software called MotoDV (version 1.4.1), which handles device control and Firewire capturing of your footage. Radius' software codec takes greater advantage of your computer's processing power to handle editing and rendering tasks, and it works! EditDV was clearly the fastest software tested in terms of rendering effects, titles, and for mastering to tape. While Radius has yet to announce a G4-optimized upgrade to EditDV, one can bet that one's in the works.

While I personally prefer Final Cut Pro's interface and more extensive compositing and filtering controls to Edit DV, one can't deny the need for speed when it comes to all things computing. If you're doing any editing for paying clients, already using After Effects or another package for compositing and effects work, or simply don't like to wait, EditDV is a good choice.

Compress to Impress: Media Cleaner Pro 4.0

Those of you doing video work for the Web and other multimedia for mats should take a long, hard look at Terran Interactive's compression utility, Media Cleaner Pro. While it's list price of \$499 puts it out of reach for the home user looking to post a video clip to his/her web site or send video email to a friend, anyone dealing with compressing multimedia and posting multiple formats for Web download on a regular basis will love this efficient, effective tool.

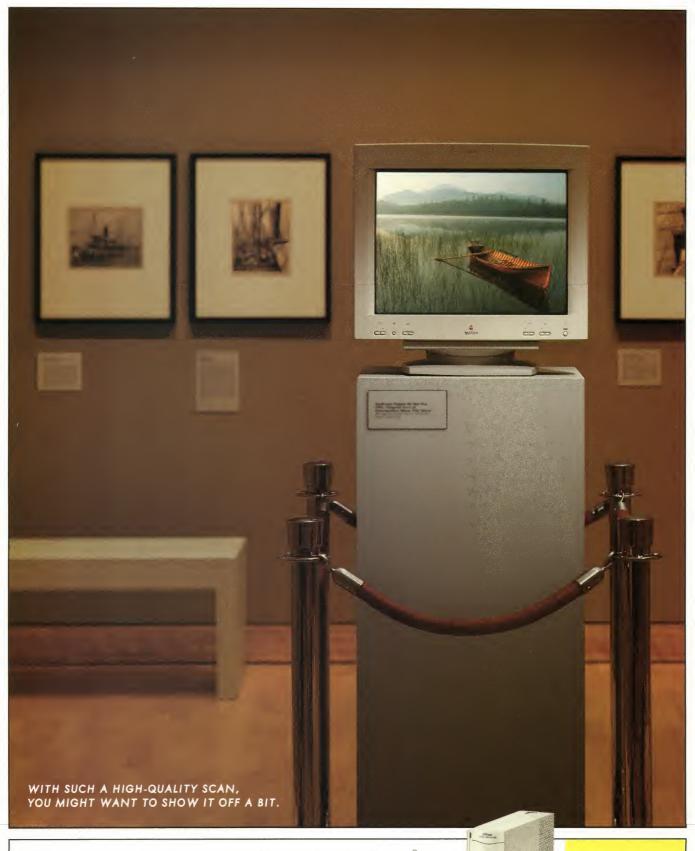
In a nutshell, Media Cleaner Pro works like this: You import your audio/video file with the click of a button. If you know your codes and compression schemes, you can pick your settings manually; if not, Media Cleaner's template wizard asks you a series of questions about your file's purpose. Is it for a CD-ROM or for the Web? Is it for viewing over a T1 line, 56K modem, or both? Do you want to export to QuickTime or Real format? Which is more important, fast motion or a clear image?

Make your selections and Media Cleaner sets to work, compressing and exporting your video into one or more versions chosen from its plethora of file formats and compression schemes. Media Cleaner compresses files quickly and reliably, does a pretty good job of removing audio/video noise along the way, and lets you see what your compressed file will look like at various settings before you render with a nifty "Dynamic Preview" feature. A hearty multimedia list could do by hand most of what Media Cleaner does for you, but if you've got the budget and need to crunch a lot of files, this is a tool you'll only love more and more each time you use it. >



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Many modern creative minds enrich their artistic concepts by infusing technology into their work. This process allows them to transcend the limits of nature through the help of technology. The Macintosh system has prevailed as a key figure in fields such as fashion design and photography ever since its introduction to the creative world.

Meet David LaChapelle – A photographer who creates his own visionary world rather than simply reproducing the visible one.

exclusive > David LaChapelle

David explains how he draws from the realities of the world around us and accentuates them into his own unique vision. In this exclusive interview, MacDirectory discovers the extent of David's involvement with technology and the Macintosh system in his work.

→ MacDirectory > How did you get into photography?

David > When I was a little kid I was always painting and drawing and I always loved photography. I came to New York when I was fifteen, and I started taking pictures when I was in high school.

MD > Coming from where?

David > I was from North Carolina.

I started photographing high school friends,
I guess they were about 15/16 years old.
I did nudes of them, crazy pictures, and
then I came to New York. I just started
searching for jobs. I never went to college,
and I didn't even finish high school.

MD > Most parents would not approve of this. Did you get support from your family?

David > My family comes from a sensitive background and my mother is very artistic, and so is my father. My parents didn't really push me into anything. They were really supportive of anything I decided to do.

MD > What influences your work? Is there a person?

David > People that inspired me, like *Andy Warhol*, showed that anything is possible, I love the idea of just radical fantasy ideas. Anything can happen.

MD > Would you describe your work as "radical fantasies?" Your work is very complex, very dramatic.

David > Yeah, totally. I make my pictures for people, but I make them to turn myself on. I just try to think what would be the most exciting thing for me to see? I want people to react, to laugh and to escape for a few minutes looking at them. Nobody wants to just keep it to themselves. It's about sharing. I am taking an image further for myself and then giving it to others.

MD > So how does your creative process work?

David > Imagine you say, "I want you to shoot Madonna." I will have a couple of ideas for that...if it's a celebrity I'll think about who they are, and I'm going to take that photograph that's going to sum up their whole career and life. It is what they stand for, so in 100 years if they have to pick one photo to show here's who that person was... that's my idea, I like to do that.

MD > So did you have fun working with Madonna? The "Purple Dragon, Fireball, And Madonna" picture (right) looks computer generated, was it?

David > No, I'll show you the photo, I'll show you the set that we created. The fire was from a girl that blows fire. Now this is where it gets tricky. Madonna didn't want to get near fire, however I wanted to get it into one shot. She said, "Nobody is going to be breathing fire on me." So I had to shoot that separately, but it was there. There was a fireball right in that spot where it is, and the girl blew it with all her power. She's a firebreather, I found her at a club.

MD > So who came up with the concept for this Madonna picture?

David > It's all me. I drew it up, put the colors, I was there while they were painting it, the whole thing. I always think the client would have a big part of the input that goes into it. Everything, it's a beloved piece, an experiment.

MD > And does your creative process include Macintosh computers? I notice you have a few Macs in your studio.







David > Yeah, we have Macintosh. I think they're great. It's important for you to know that Macs are tools, but my photos are representations. They capture moments of things that existed in time. These events took place and I'm just documenting them. I set them up, I instigate the scene and I set it up. The process is not just a drawing, or an illustration on the computer. It is more fun to have the girl sitting in a set that I designed.

MD > Do you use Macs yourself?

David > I'm not computer-literate at all. I don't want to disappoint you but I have never sent an e-mail in my life, and I can't type.

MD > So in terms of retouching, who does it? Do you send it out?

David > I've worked very closely with Christopher Masciocchi for years and years. He's moved to San Francisco now so he e-mails me the images and we go back and forth.

MD > So can you explain the process?

David > I send him the prints. And he scans them. He's absolutely the best digital retoucher for fashion, beauty and celebrities in the world. He pioneered it. He was using the technology way before Photoshop existed. We started working digitally eight years ago and we would spend all night working.

Macs are tools...computer is a slave to photography..."

Christopher is so sophisticated that, first of all he's an artist. He's studied anatomy, he understands anatomy, he knows what doesn't work. He has an aesthetic sensibility that most digital retouchers do not have. They are technicians.

MD > But how well can you see and proof the images from an e-mail?

David > Well, we've worked closely for so many years that he knows what I like. I don't have to tell him what my tastes are, I just tell him what has to be done.

MD > Do you think that technology has influenced your work?

David > Well, I think that digital retouching and Macintosh systems are tools, and they'll always be tools. Really the computer is a slave to photography, it will always be. You have to start with an image and an idea. You can't create something from nothing.

MD > And where do you start with an image?

David > My photos are places you don't really live, it says a lot about a person who will collaborate with me. It says more about them and where they're willing to go and how they view themselves.

Inside every actor there is a kid that wants to be on stage and people to notice them. There's a bit of an exhibitionist in every actor and somebody who wants to entertain and perform as an artist.

As a little kid I didn't think about the money. I didn't think about the contracts or agents. I just wanted to entertain, and I try to remember that when I shoot people.



MD > So you keep this philosophy in the back of your mind?

David > It's just something I think about. I like to see how far they'll go.

MD > Do you push the actors, singers, and other people you photograph?

David > Sometimes. If I really strongly believe that it is...I'm not here to trick somebody. First of all everyone looks beautiful in the photos, and I will challenge anybody who will say find me a picture of a movie star or a rock star that I've photographed that doesn't look great.

MD > But isn't that so subjective?

David > No, it's not. I'm not interested in showing people's pimples. I'm not interested in showing their faults. I'm not interested in exploiting their faults. They're all idealized.

MD > But why are you so interested in perfection?

David > I'm interested in the idealization of people. That's for me a form of escape, and as human beings we all enjoy seeing beautiful faces, we enjoy looking at beautiful faces, it is proven.

New-born babies will stare longer at a photograph of a person that we consider beautiful. People in our society have judged certain features and characteristics as ugly and some beautiful. When someone shows a baby a picture of what most people consider "ugly", a homely looking person for instance, the babies will spend more time looking at a beautiful face. How much of that is superficial? I don't know.

I like people that are beautiful. I like movie stars to get beautiful, and make them bigger than life.

"My House, Alek Wek in Christian Lacroix, New York" picture (right) represents this. She is beautiful and some of the elements of this picture are computer generated. We made the "Pink House" small and shot it in the same light. The house was about six feet, and we just wrapped it in fabric.

MD > What do you like and dislike the most about what you do?

David: I dislike when celebrities are nervous working with me and they don't appreciate my work.

MD > Why would they get nervous by working with you? You seem so laid-back and non-threatening?

David > I'm not a threatening person, but my work is threatening to them. It's not safe, but it's memorable. It's unfair when I'm trying to be creative and people turn it





إلالا HOTEL



into a business thing when it really should be creative.

MD > Now about your book cover (left), why did you name it "Hotel LaChapelle?"

David > It's sort of like the personal LaChapelle Land. Hotel is a smaller place, it's not the whole Land. A hotel is a place were people meet anonymously.

And all kinds of things happen at hotels: people go there to go on affairs, honeymoons. All kinds of things. All of a sudden you include travel, it means staying in a place you don't normally live. That can be true of a photo too.

MD > Where did you photograph this image?

David > It's that building right there, (pointing out the window) across the street. I always look at that building. I'd look at all of those tenant buildings and all these lives are happening, like how many people are out there having sex right now...

MD > Why did you make it so sexual? I don't know.

David > It says a lot about you. What does that mean? Every part of this photo is sexually related.

Sex is a gift. Sex is one of the gifts in life that you don't have to be rich to enjoy, it's a gift. I am always drawn to more physical things and all those women and men represent the spontaneous behavior of people.



SPECIAL THANKS TO DAVID LACHAPFELE, ADAM NELSON, LUIS NUMEZ AND MONKA MORAN. PORTRAIT OF DAVID LACHAPFELE BY JAKE LANGBEHN.



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THE INTERNET IS THE HOTTEST THING IN TECH CIRCLES TODAY, and is the reason that a home computer is fast becoming the most popular home appliance purchase. Unfortunately, just buying the hottest G4, iMac, or iBook isn't going to guarantee your path to net nirvana. Where Internet access is concerned, the speed of your machine is almost always secondary to the speed of your connection to the Internet.

Today's 56K V90 modems just aren't fast enough to satisfy the bandwidth-crunching requirements of graphically intensive web sites, let alone RealAudio or the new QuickTime streaming video. Luckily, some good options for speeding up Internet connectivity are emerging, namely DSL (Digital Subscriber Lines) and cable modems, which join the old standard of ISDN (Integrated Services Digital Networks). DSL seems poised to provide the most wide-spread and flexible opportunities for high-speed connectivity, but comes with its own set of caveats. This article compares and contrasts the options that are available to you today, helps you sort out some of the alphabet soup surrounding DSL and provides a glimpse of alternative DSL futures.

OVERVIEW OF DSL

Digital Subscriber Lines are an easy way for most people to upgrade their Internet connectivity, since they're installed and operated by your friendly local RBOC (Regional Bell Operating Company). DSL uses standard copper phone wire, and thus in many cases can run on your existing house wiring. (Of course, if your phone lines were installed by Alexander Graham Bell himself, you'll have to have your phone lines upgraded, which might not be a bad idea anyway.) Other issues that might



The primary downside of DSL is that your home or business must be within 18,000 feet (approximately three miles of telephone cable) of the nearest phone company switch in order for you to use DSL. This limit is 18000 feet of wire, not 18000 feet as the crow flies, which currently rules out DSL for many rural areas, as well as some of the zig-zag telephone



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cable installations you find in more urban settings. The phone company is hard at work trying to remove or lighten this limitation, but it's a hard and fast rule at the moment. Luckily, as Justin Beech, operator of the popular dslreports.com web site, notes: "Business DSL is in the majority of the profitability plans for local telephone carriers. This is bringing in a lot of hardware talent, which will filter down to the consumer end." Talk to your local phone company before jumping at potentially more expensive alternatives to DSL.

HOW DO I CONNECT USING DSL?

Beyond potentially having to upgrade your phone lines, you'll need a special modem for your DSL connection, which will be supplied by your DSL installer. Many different makes and models of DSL modems are available for both Macs and Wintel systems. DSL modems can be cards that you install into your Mac or Wintel system, USB devices that you connect to a USB port or hub on your computer, or external moderns that you can connect to an existing network card in your computer. You connect an external cable modem to a network card using a standard RJ45 connector, just like any 10-BaseT network connection.

If you already have a home network and therefore already have a network card in your computer, you'll probably want to try to get an external DSL modern that you can connect to your existing network card. Some telephone companies will only let you connect an external DSL modem to specific types of network cards, or require that you use a specific type of internal DSL modem. This helps them maximize the number of installations they can do each day by limiting the number of potential problems that their installers may encounter. Your DSL installer should be your friend, but if you find that he or she has a specific hardware script that they have to follow, you'll just have to accept it. If it doesn't void your warranty or

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contract, you can always upgrade your hardware later, if necessary. If you don't have the skills to do this, chances are that you don't really need to.

Once you've sorted out your hardware configuration and modem type, you must next make sure that TCP/IP software is installed on your machine. For older Macs, you'll probably want to use MacTCP. Newer versions of the MacOS (7.6 and better) include Open Transport, which is Apple's latest, greatest, and fastest TCP/IP implementation. You (or the person who is installing your DSL service) then simply need to set the IP address of your machine to the address provided by your DSL provider, set the primary gateway and nameservers to the addresses that the installer will give you, and you should be set. Once you've gotten a DSL modem and upgraded your phone lines if necessary, you may just find yourself in Internet connection heaven. The slowest DSL connection is 144 Kbps (kilobits per second, i.e., thousands of bits per second), with practical speeds up to 1.5 Mbps (megabits per second, i.e., millions of bits per second) and theoretical speeds up to 8 Mbps - all of which should be plenty of speed for viewing or downloading even the lengthiest Star Wars trailer.

THE COMPETITION: CABLE MODEMS AND ISDN

Cable modems are the biggest competitor to DSL. Like DSL, a cable modem provides a constant Internet connection at very high speeds - typically between 500 Kbps and 10 Mbps, and theoretically even higher. The speed difference would seem to make cable modems a clear performance winner, but for the fact that cable modems share your connection to the cable company's network hardware with the other subscribers in your area - the more there are, the less merry you'll be. The primary downside of cable modems is, well, cable. Quality of service issues aside, most cable companies won't install a cable modem unless you also have some cable television service. This probably won't be a problem if you're a TV junkie or have kids, but if you don't like television or have a conceptual problem with it, you'll probably have to get some level of cable television service in order to get a cable modem.

ISDN (Integrated Services Digital Networks) is a network connection mechanism that has been available from most telephone companies since the mid-1980s. ISDN provides two lines, one for voice and one for data, and offers a constant connection speed of 64 through 128 Kbps - you can use both lines when the phone isn't in use to get faster throughput. ISDN provides a guaranteed connection rate in both directions of 64 Kbps, while DSL and cable modems usually provide fast download speed but slower upload speeds. The primary negative for ISDN is its connection speed, which is much less than you'll usually get on with DSL or a cable modem. You also can't use extension phones in your house without a special TA (terminal adapter) if ISDN is your only phone line. The terminal adapter lets analog devices such as phones work over a digital ISDN line.

"DSL offers significant advantages over standard dialup connections."

FUTURE DIRECTIONS AND ACRONYMS FOR DSL

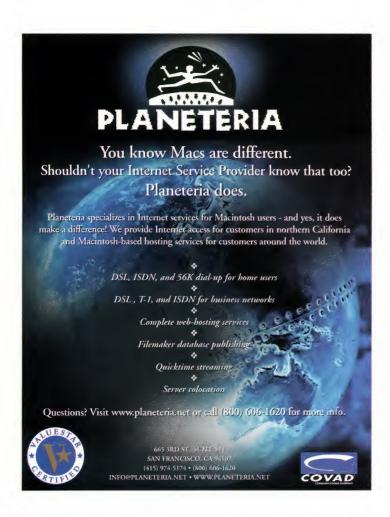
Like most new computer-related things, a bewildering array of acronyms surround DSL - it has more variants than you can shake a dictionary at, including ADSL (Asymmetric DSL, the most common type), HDSL (High-bit-rate DSL), RDSL (Rate-adaptive DSL), and VHDL (Very-high-bit-rate DSL). Yet another acronym, SDSL (Symmetric DSL), offers the same speeds for both uploading and downloading, which may be important to you if you're using DSL for business. Other than that, what do all of these mean to you? Frankly, not much unless they're available in your area and you need more bandwidth than a standard DSL connection provides.

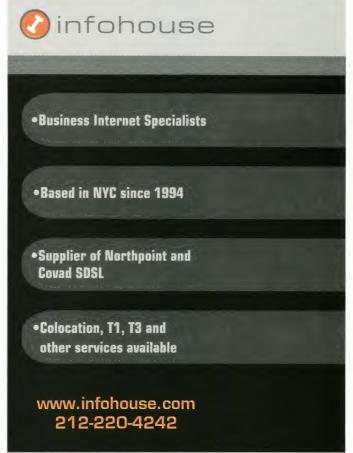
SUMMARY

DSL and competing high-speed home Internet connections offer significant advantages over a standard dialup connection. The most obvious of these is the speed of your connection - faster is just plain better. Besides this, having a constant Internet connection means that you also have a static network address. If you leave your computer system on all the time, this means that you can run your web server or easily transfer files back and forth to your home machine at any time, from anywhere.

As far as which type of high-speed home Internet connection is best for you, you'll have to make your own decision. If you need guaranteed upload and download speeds or live miles from the nearest phone company switch, ISDN might be the right choice. If you already have or want cable, or just want high download speeds regardless of where the nearest phone company hardware is located, there might be a cable modem in your future. However, DSL provides advantages in terms of reliability, performance, cost, ease of installation, and quality of service that other home Internet connections are hard pressed to beat. If your home or small business is within three cable miles of the nearest telephone company DSL switch, DSL is probably your best bet for a home Internet connection.

COMMONLY USED DSL TERMS DSL > Digital Subscriber Lines ADSL > Asymmetric Digital Subscriber Line RADSL > Rate Adaptive Digital Subscriber Line HDSL > High-bit-rate Digital Subscriber Line SDSL > Symmetric Digital Subscriber Line VDSL > Very high-bit-rate Digital Subscriber Line Dedicated Line > A transmission circuit installed between two sites of a private network connected at all times Packet > A logical grouping of information. It's a continuous sequence of binary digits of information which is switched through the network as an integral unit Packet Switched Network > A network in which data is transmitted in units called packets. The packets can be routed individually over Epoch's network connection and reassembled to provide a complete message at the destination Twisted Pair > Cable consisting of two 18 to 24 AWG (American Wire Gauge) solid copper strands twisted around each other. The twisting provides a measure of protection from radio-frequency interference.





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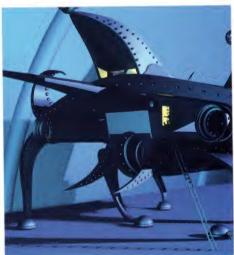
"I use my Macintosh in every process of making books."

MD: You were a toymaker. Talk about how it was to create a story where toys were part of the fabric of the book.

David: It was great fun to design all those robots and space ships in three dimensions on the computer and then get to see them from any angle or position and in the sorts of situations that robots ought to be getting into. It was like the world of my childhood (and adulthood) toys had come to life.

MD: Describe the process of working with a team of computer artists.





David: I did the writing and drawing just as if I were going to paint the book. My assistant Raphael and I then did preliminary paintings. Then I sat with the computer artists in Iowa to design the 3D character models. Then they set up the scenes with the models and we lit them to try to get and improve upon the atmosphere in the color sketches. Sounds so easy! But it wasn't really.

MD: What led you to making your artwork in 3-D instead of painting with oils?

David: My publisher-partner Nicholas Callaway thought it would be a good way not only to speed things up, but to get us ready for a possible movie.

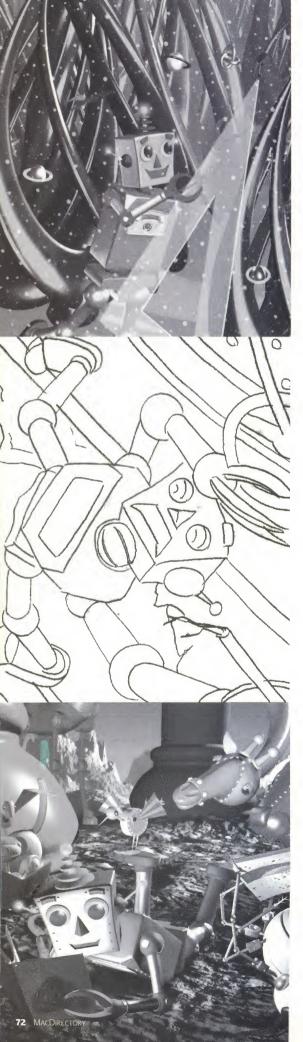


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MD: Millions of people know Miss Spider. How is Nova different from her?

David: He's a boy and he's metal. They are both yellow and have green eyes and exo-skeletons though. They also have conical headpieces. Nova would be good to bugs too if there were any left on Roton. But he, like Miss Spider, tries to be good to everyone.

MD: A Nova movie is in the works. Tell us about the work you have done on that.

David: I wrote and wrote and wrote. Then I wrote and wrote and wrote with Bob Baker. I talked on the phone. I wrote some more. I went to Hollywood and talked enthusiastically to roomfulls of executives. I'm excited to see what happens next.

MD: What do you like the most about your job?

David: The best thing about my job is getting to make up stories and characters and see them get turned into books and toys. The crummiest thing is having to work too many hours under pressure and most of all to tour. Unlike Nova, flying scares the 40 weight out of me.

MD: What is the next Nova story and when is it coming?

David: I'm still thinking. Sooner than you'd suppose possible.

MD: Will there be more after that?

David: Just like robot life - It will be never ending.

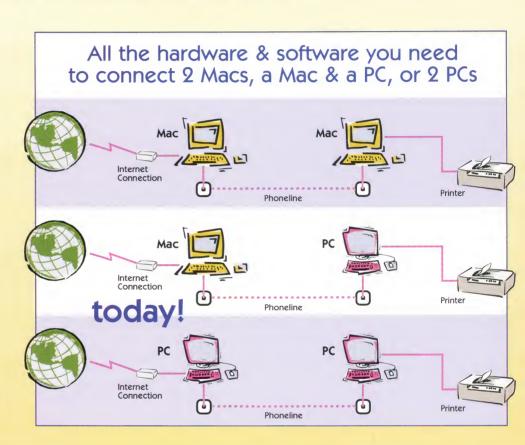
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review 1 > inDesign

BY JOSEPH KULELLA

In recent years it has become increasingly apparent that Quark has been taking for granted its dominance in the page layout arena. Long rumored and much touted as a "Quark Killer," InDesign's recent, and somewhat delayed, release has been heralded by some as a new age in the era of page layout programs.

The first thing you'll notice about InDesign is the interface. If you use either of Adobe's flagship products, Photoshop or Illustrator, you will immediately recognize the interface, as it bears a remarkable resemblance to its older cousins. This level of integration extends to InDesign's ability to import native Illustrator and Photoshop files, though this feature is at times flawed (for example, bringing text in from Illustrator renders the text as an object which cannot be edited in InDesign). Additionally, Adobe has kept InDesign's keyboard shortcuts identical across both Windows and Macintosh platforms so that if you are in a mixed-use environment, you will be able to switch back and forth without having to continually rethink your shortcuts.

Adobe decided to take a few lessons from QuarkXPress as well, and this turns out to be a bonus for long-time XPress users. InDesign operates on the familiar layout model of XPress where text and image objects are contained within frames or boxes. You have the option of nesting those frames inside of each other to produce a variety of layering and masking effects as well. InDesign also borrows heavily from XPress's master page features and allows you to create master pages and "child" pages that change as their "parent" pages change.

InDesign's strongest new feature, however, is its handling of typographic features. Foremost is the new multi-line composer which adjusts the breaking point of a line of text based on a variety of factors gathered from multiple lines both above and below the line being adjusted. It looks for ways to rearrange a series of lines to create a visually

> based on how well the application can stretch or compress the words in that line only. InDesign also sports typographic features that support hanging punctuation, automatic ligature replacement, and optical character kerning. Essentially all of this adds up to the ability to set type that is more visually appealing in significantly less time than you can now with QuarkXPress.

As a first version, InDesign is not without its shortcomings. One that has prompted some concern is the system requirement for the application: Minimum requirements call for a G3 processor with 48 MB of RAM, and more if you can spare it, along with 130 MB on the

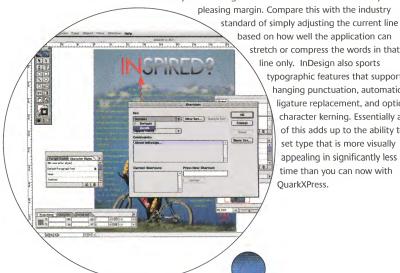
hard drive. Not exactly a lightweight in the field. There are also a couple of glaring omissions in the program, especially considering InDesign's lineage. PageMaker has featured a separate story editor since it debuted and Adobe's failure to integrate one into InDesign is unfortunate. And while InDesign sports some of the same drawing tools as Illustrator, they are hardly as well handled as they could be. You can't even set type on a curved path at this time.

Adobe

InDesign

But hope springs eternal, for a couple of reasons. Adobe has a long history of responding quickly and appropriately to users' concerns and I suspect it won't be long before we begin to see upgrades that address some of the flaws in the program. And InDesign's architecture certainly provides plenty of room for improvements. The program is actually made up of a series of modules that handle all sorts of tasks from drawing objects, applying filters, and managing typographic features.

Your decision to try InDesign may be somewhat academic. While it does not destroy QuarkXPress with one swift stroke, it does set the stage for the demise of XPress unless Quark rises to the challenge. InDesign will perform at least as well as and in some instances better than XPress for the majority of users out there. Some shops and users may not be able to justify upgrading their machines just to run InDesign, but the plummeting prices of Mac hardware bode well for Adobe. With aggressive upgrading and third-party support, InDesign could very well do what Adobe hopes it could. I wouldn't expect Quark to sit idly by and watch, however, and that's a good thing for users. A bit of competition is what the page-layout market lacked before. That competition fuels innovation and keeps developers honest. And we all stand to gain from that. PRICE: \$739

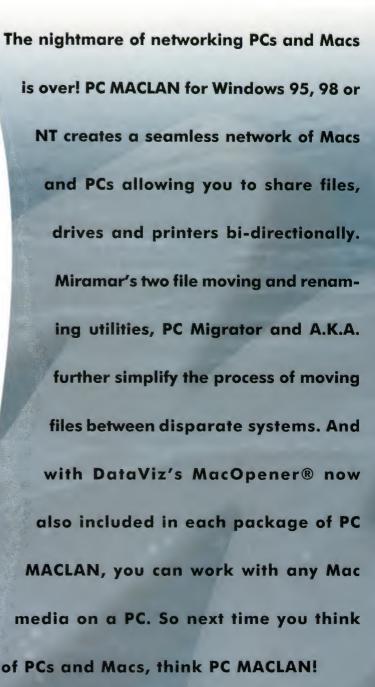


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review 2 > IntelliMouse Explorer

BY MELISSA DEVALESKY

Have we really needed to wait 30 years for a breakthrough in technology? Well, Microsoft really thinks so, with the introduction of IntelliEye technology to their new line of mice.

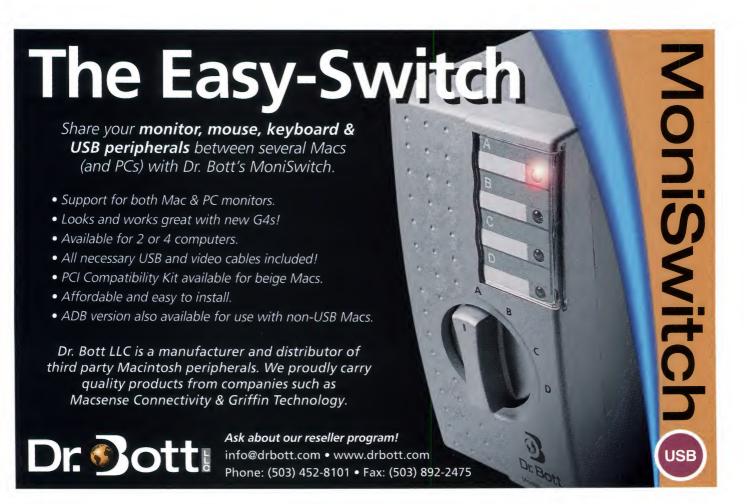
This technology allows the mouse to operate without any moving parts. IntelliEye uses optical sensors to take 1,500 snapshots every second, which are then translated by a digital processor into motion, allowing the user to maneuver the mouse on almost any surface. This prevents having to clean the mouse of accumulated dirt on the trackball.

While very ergonomic and sleek, these mice are all geared for the right-handed mouse user. A red glowing light can be seen from the back of the mouse, giving it a futuristic touch. The mouse can be connected to any computer with either a USB or PS/2 port. Mac users with a USB port, and OS 8.5.1 or greater are required to download Microsoft's IntelliPoint for Macintosh driver.

The IntelliMouse Explorer, their top of the line mouse, comes with 4 buttons: the usual left and right, plus 2 by the thumb for forward and back on web pages, and a scroll wheel, all of which are easily programmable. There is also available a basic model with just the left and right buttons. We decided to test the performance of the mouse and found it to be really great on applications requiring much movement. The IntelliMouse Explorer sells for under \$70 and the basic mouse for \$55.



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review 3 > HP Desklet 970Cxi

BY LINDA JORDAN



Hewlett Packard has introduced the Desklet 970C Professional Series printer, adding to their already wide line of color inkjet printers. With a list price of \$399, this printer offers completely automatic double-sided color printing at resolutions up to 2400x1200 dpi on photo-quality paper. It also uses HP's enhanced Color Layering Technology (PhotoREt III), which uses 17 levels of color intensity layered in such a way as to produce thousands of colors, as compared to most other technologies, that only use 8 levels.

The package comes with a simple eight-step instruction sheet that's easy to read and follow. I used a USB cable to attach the printer to an iMac. Once connected, within five minutes the printer was operating. Note: When purchasing any printer, you will also have to purchase a printer cable, as most manufacturers do not include one in the package.

The printer was tested using Adobe Photoshop 5.5 on an iMac with 32MB of memory and a G3 333MHz processor. In order to assess speed and image quality, a 12.2 MB, 250 dpi resolution, 5.4" x 9.3" print size image was compared with the same image reduced to 72 dpi, producing only a 1.01MB file. Using plain paper, the high resolution image printed

in 1 min. 40 sec., while the latter printed in 1 minute, 15 seconds, Using the premium photo paper resulted in a 2 minute, 33 second print speed of the high resolution image. The speed for printing just a text document was an average of 5.2 pages per minute, but text print is still not of laser quality.

But there are certainly many benefits afforded by this printer, including its automatic double-sided print capability, an ingenious set of indicators under the panel that tell you when there is a problem with ink cartridges or they need to be replaced, and a button that allows you to stop printing even after a job has been spooled. The software provided also comes with an indicator that tells you how much ink you have left in each cartridge.

If you will be printing PostScript files, the Desklet 970Cxi is unable to process the images. HP currently does not have a utility designed for this DeskJet

All in all the Hewlett Packard 970Cxi printer is certainly a great value and a great producer of images at good speed and quality. Thumbs up to Hewlett Packard! PRICE: \$399



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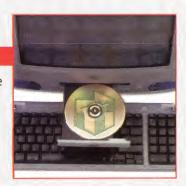
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review 4 > Corel Print Office

BY RIC GETTER

If you work in a small office where no one has the time, interest or experience to fill your basic office graphics and publishing needs, then Corel has just released a software solution for you. The lavish box makes a lot of claims for what this multi-purpose publishing package can do, and the software actually lives up to most of the promises. However, its interface is a direct port from the Windows version.

The package is comprised of two programs, Corel Print Office and Corel Photo House. The former takes charge of the page layout, object-oriented graphics and project management needs. The latter allows you to manipulate bit-map graphics, including importing, editing and stylizing photos. Most of what you'll find on the three-CD set consists of clip art images (over 25,000), photos (over 10,000), professionally designed templates (over 2,500) and a collection of 300 TrueType fonts. You also have access to additional images via Corel's web site. Browsing this collection, as we'll see later, can be quite time-consuming.

Installing the program is straightforward, with one small catch: it requires that Virtual Memory be turned on (no matter how much real memory you have installed). There are no provisions for a Custom Install or removal of the software, so if you don't like the half-dozen symbol fonts the program stuffs into your system, you'll have to find and remove them yourself. There's a ten-minute guided tour on the install CD that provides an invaluable overview of the program's interface.

When you start up the Print Office application, you are greeted with the Project Window. A large object called the Notepad takes up a goodly chunk of the left side of your screen, leaving the rest for your composition. The Notepad takes the place of dialog boxes, palettes, and a number of other functions we are used to seeing displayed in other, more logical

One of the Notepad's tabs is how you open and preview those tens of thousands of goodies that come on the CDs or any other files you may

> When you begin a project, you can either start with a predesigned template (all you need to do is add your own text) or a blank project. Well, almost blank. You still need to select from another group of templates that assign page size and orientation. The program is designed to handle multi-page

layouts and has a PageMaker-like method for flowing text through multiple columns and pages. However, there are no

"master" pages, so you'll have to add headers, footers, page numbers, etc., to each page manually. Importing text appears to be limited to plain text and RTF-formatted text, but Print Office has an abundance of text and paragraph formatting features of its own.

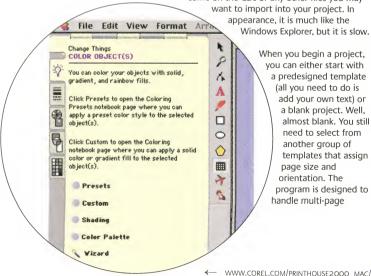
Once you have your basic page in place and have inserted your text, you can augment it with some of the drawing tools available in Print Office. One of the tools is a "Symbol Sprayer," which can take one of several default objects (or use one from a symbol font) and spray copies of it around the screen. I was a little surprised to discover that the symbol that gets sprayed by default is the Windows logo. When this program was ported to the Mac, this little detail was missed.

As you continue to work on your page, you will find yourself constantly interacting with wizard-like guides in the Notepad area. For example, until you learn to decipher the iconography of the side-tabs of the Notepad, something as simple as creating a line can be a multi-step process, thanks to the "helpful" wizard.

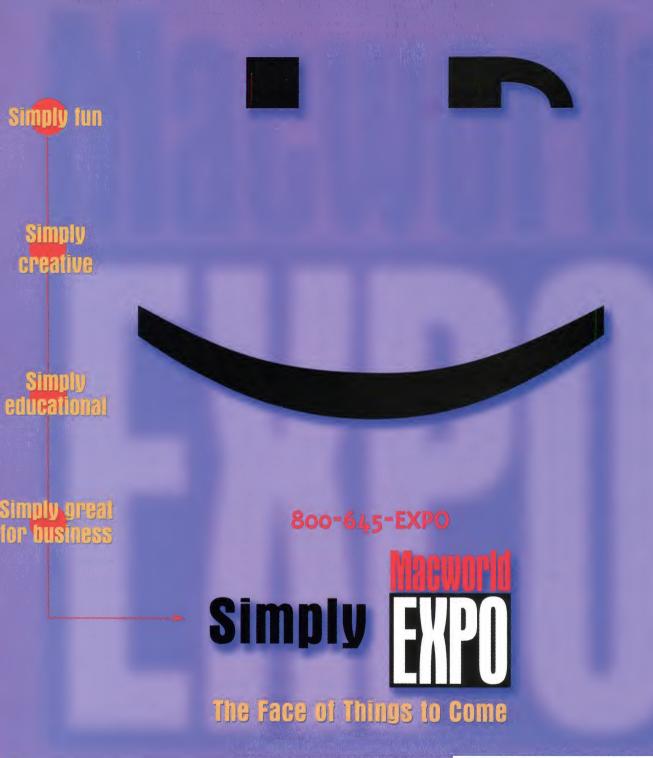
The interface for Photo House is very similar to Print Office's and it has functionality similar to Adobe's Photo Deluxe. It has a number of special effects (the page curl was my personal favorite) and can import a variety of image formats, including Photoshop. Even though it's a separate program, the integration with Print Office is quite seamless.

The program does a fairly decent job of taking a page layout and converting it to HTML, as long as vou keep your designs simple. It handles multi-page layouts with a simple "Next Page" link at the bottom of the screen. If you want to use any other kind of link, you apparently need to add it to the HTML code vourself.

Print Office is ideal for a novice user who needs to be walked through every step of a project and has little need for coming up with their own designs. Familiarity with the Mac interface would be a hindrance to learning this program, rather than a help. In that case, you may be better off looking into some of the other publishers' offerings in this category. PRICE: \$99



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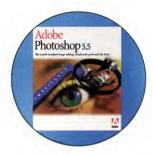
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review 5 > Adobe Photoshop 5.5

BY DAN MOUGHAMIAN



The recent release of Photoshop 5.5 from Adobe has left some users wondering if the upgrade is worth the cost of admission, given the new features included this time around. Ultimately, the answer will depend on how often you work with graphics that are destined for the web. Though some improvements have been made to existing tools (such as the magic wand and paint bucket) and some new features added, major additions to Photoshop 5.5 were clearly made with web designers in mind.

The most obvious factor involved is the inclusion of ImageReady 2.0 - an application which competes directly with Macromedia's Fireworks (an image editor for web designers). However, this review focuses on primary improvements made to the Photoshop application itself, rather than on ImageReady and its impressive capabilities.

Though no major alterations have been made to Photoshop's interface since version 5, there are noticeable improvements. Chief among them is a new "Save for Web..." option under the File menu. When this option is chosen, a window is displayed which allows the author to preview an image with the settings they choose. JPEG, GIF, PNG-8 and PNG-24 are all supported, though for some reason GIF-98a is still a separate export option.

Also supported are several color mapping, preview manipulation and dithering options. Particularly useful is the ability to display multiple variants of an image,

PHOTOSHOP INCLUDES IMAGEREADY WHICH ALLOWS YOU TO OPTIMIZE AND SAVE IMAGES FOR THE WEB

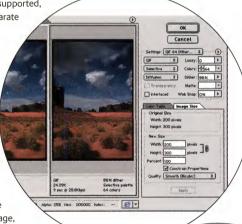
> using various formats and color mapping schemes. This allows designers to quickly see which options will allow the best looking image, while keeping file sizes small. Browser previews can be launched from this window as well. As someone who works with web graphics, this feature is a particularly welcome addition.

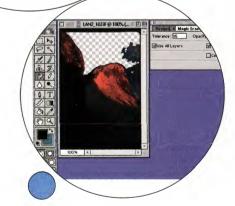
But not all of Photoshop 5.5's new tricks are web-related. As mentioned earlier, the magic wand and paint bucket tools have been enhanced. Selections and fills can now be made as both contiguous groups of pixels, or they can made to all eligible areas in the image. Also new are the magic eraser and the background eraser tools. When you click in a layer with the magic eraser tool, it erases all similar pixels to transparency. And, the background eraser tool lets you erase pixels on a layer to transparency as you drag. Tolerance levels for both tools can be set via

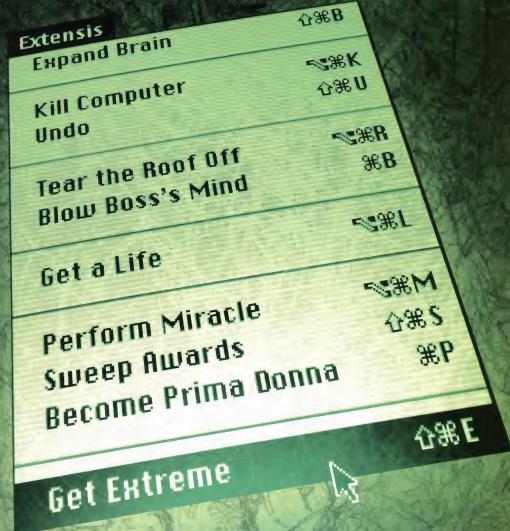
the options tab, to define how sensitive they will be to similar colors. Opacity can be defined for the magic eraser, as well. Finally, with either tool one can choose to manipulate a contiguous group of pixels, or all similar pixels on the current layer.

Other improvements made to Photoshop 5.5 include better anti-alias support when using text, contact sheets, improved handling of color tables and more.

But the bottom line is, Photoshop 5.5 is only a major upgrade if you design or edit images for the web (or your company intranet). If this is the case, the improvements in this version will likely make it a worthwhile investment for you. If not, you may want to wait until version 6.0 arrives. PRICE: \$739







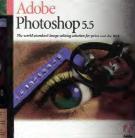
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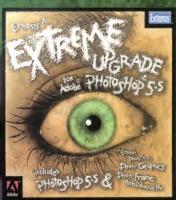












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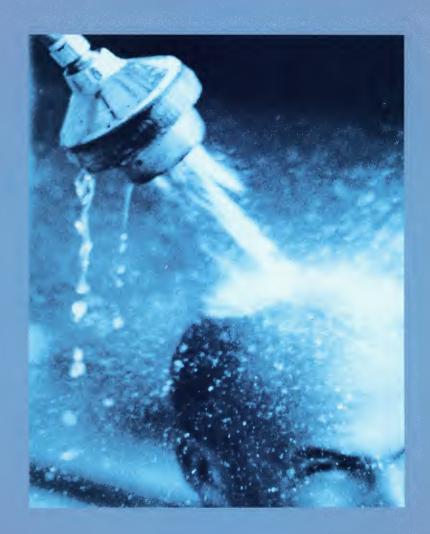
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"most computer users in Perth still think of Apple as a dead company."

Approach life with a laid-back, "We'll give 'er a go" attitude, enjoy a few pints with your mates in the backyard as night falls, and stand by your Mac (if you're one of the few who own one). These are the attitudes of today's Australians, as described by the Mac faithful on a continent halfway around the world from Silicon Valley. Telephone ads aside, Apple's place in the computer community Down Under isn't so different from its place in the American hi-tech world. Macintoshes have found their niches in the education, publishing, and multimedia communities, but only recently has Apple begun to market its colorful machines and user-friendly operating systems to the business and home-computing worlds. With the return of Steve Jobs, the advent of the iMac, and the ever-growing swell of Internet users, Apple is beginning to position itself as a major player in the Australian computing market, much as it has recently started to do stateside.

Matthew Healy is the president of the West Australian Mac Users Group, and has been using Macs for eight years, which has helped him to "do all sorts of things for a living." He says that while many people in his city of Perth (pop. 1.5 million) think of Macs as "the coolest computer to own," few computer users actually own an Apple machine. "The main problem," he says, "was that the currency exchange rate between the US [and Australia] was making Macs substantially more expensive than PCs, which are made locally. This is changing, though." Healy, who runs a lifestyle magazine called Phenomena, owns a Web design shop, and does tech support, claims that while Apple is starting to pop up in cinema and in print and radio ads, most computer users in Perth still think of Apple as a "dead" company. "PC users here seem to think that Bill Gates owns Apple personally," Healy notes; "I correct them at every opportunity. This is a shame. The major news outlets don't do much to help this, as you hardly ever see anything about Apple on TV. We see lots of iMacs on different shows, just no mention of the company itself." While bearing in mind that Australia's population is only 20 million, Healy says that Apple is gaining in popularity at a rate relative to what's going on in the bigger, more technology-driven U.S.

Healy's relationship with the Mac began in the early 90s when the school he was attending set up a lab with Mac Pluses on LocalTalk with a sole ImageWriter printer. "Each student," he recollects, was given an 800K disk to fill with "system software, apps and a year's worth of documents. Try doing that these days!" Today, Healy's home setup includes a Centris, a Quadra, a Performa, two beige G3s and a Rev. A iMac, not to mention a mid-'80s vintage PC XT with dual floppies.





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Much like Healy, Robert Hook was also first exposed to the Mac platform when Griffith University, where he was studying, in 1985 began installing Macs in their student labs. "They were absolutely hammered by students doing word processing and data analysis - and cutting code," he recollects. "My third year 'thesis' was in fact an analysis of the Macintosh as a platform to determine whether it was a 'real' computer or just some sort of toy. To prove the point a mate and I sat down and hacked out a 3D graphing program in Pascal ('PossumGraph, Unlike CricketGraph, it can climb trees!'). Was it a serious machine? Even at 128Kb with that dinky little screen it was obviously something amazing."

Now making his living as a Unix and C programmer/analyst in the Queensland southeast corner city of Brisbane (pop. 1.5 million), Hook is a big Macintosh fan for a simple reason. "It just works. Okay, it's a trite slogan, but it's true. When I come home and sit down, I don't want the technology getting in the way of the task. I want to feel that I'm working with the application, if not the information, rather than working with the computer," he says. "The only time I've ever felt close to that way when working with an IBM-PC architecture box was when I deinstalled Windows and ran up Linux. And it took several weeks of tinkering under the hood to get there."

Much of Hook's work is done for the Australian government, and involves systems design as well as "traditional" database work. As such, he has first-hand insight into the structural workings of workstation and network technologies, and is a self-styled "huge Mac fan. It's probably my exposure to, and high expectations of, the lower levels of computing technology that led me to be so keen on Macs," he explains. "My current beige G3 is, oddly, only the second I've owned, but I think it says something about the Mac that the LC575 I had before that was in active use daily for over five years, and still continues in use by a mate for desktop publishing."

Stuart Murdoch, a Melbourne-based artist who teaches photography at a post-high school level known in Australia as TAFE (Technical and Further Education), sees a similar feeling in the professional imaging community. "The majority of Macs are owned by imaging professionals in Australia," he explains. "They use them because of stability and ease of use, mainly. I know one person who is not a graphics pro who owns a Mac and she uses it for its ease of use."

Murdoch, who now works on a beige G3 and plans one day to "get rid of my wet darkroom and do everything digitally," has been using Macs for about five years now, save for one work-related stint on the PC platform. "I did for a while in 97/98 work for a state institution that had a policy of IBM only. I learned a lot about computers in general in that six months. And the problems that I had with [my PC] made it a very unproductive tool. It kept the help desk guys busy, though!"



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Despite the hardcore Apple brand loyalty displayed by computer professionals like Healy, Hook ,and Murdoch, the fact seems to remain that Apple has done nothing short of an overwhelmingly poor job of marketing the Macintosh in Australia. Hook pulls no punches when describing Apple's business strategies Down Under. "Apple and Macs have a serious image problem in Australia." he explains. "The general perception of the Mac is that it's too expensive and doesn't have any software. Obviously this is a misperception, but it's a very deep-seated one." He goes on to describe a phenomenon not at all unknown to Mac advocates in the U.S. "There is an ingrained and completely unfounded bias amongst IT professionals against Macs as desktop clients. Then parents and schools choose Wintel boxes because that's what's in use, and what the 'professionals' recommend."

Like his countrymen, Hook has seen the beginning of an upswing of late, but also says that Apple's work Down Under has only just begun. "The uptake of Macs has been recent, and almost definitely due to the iMac," he says. "Most parents and many older people wanted a machine that they could understand, and the iMac arrived at the right time to be the machine of choice." Still, the company's marketing strategy has been almost nonexistent for much of the 90s. "Apple's presence - particularly its advertising - has always been appalling. There's been no attempt to debunk the myths of the superiority of the Wintel platform. The only time in a decade that Apple did a good marketing job was with the introduction of the iMac - and the market responded." Though optimistic, Hook offers this decidedly unbiased view of the company's business history in his homeland: "To be completely blunt, Apple's marketing presence and approach in Australia could be held up as an example of how not to market successfully," he says.

With the iMac, and the iBook soon to follow, Apple has begun to reverse that trend in Australia, and the computer professionals there can see a future in which more and more of their friends and neighbors begin to appreciate the Mac's elegance, stability, and ease of use. In a market stocked to the brim with cheap, no-name Wintel boxes, only time will tell, though, if our mates Down Under can be persuaded by the folks in Cupertino to give Macintosh a go.

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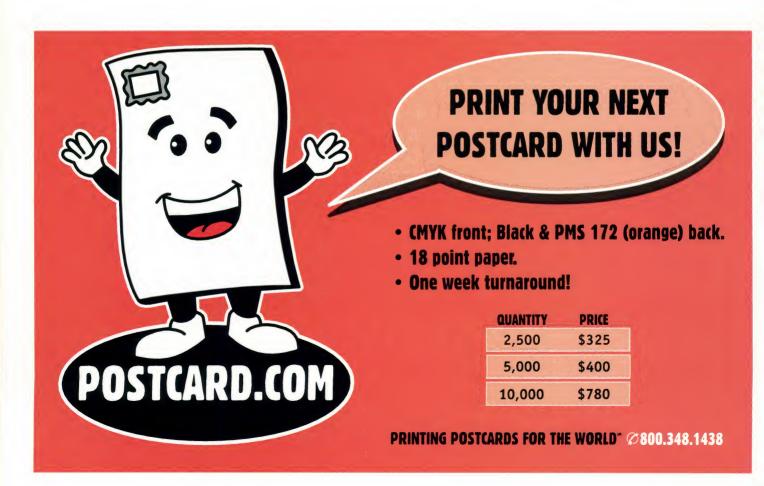
BY LUCINDA JACKSON

IT'S TIME TO LOOK TO YOUR DESKTOP when seeking career opportunities. Many people spend fruitless months hunting for jobs in newspaper ads and through word-of-mouth. Don't underestimate the power of your computer screen when looking to pursue your dreams and find that "dream-job". Take Lauren Roslen for example, it was last summer when Lauren began her online job search with Yahoo using key words such as "jobs", "Macintosh" and "programming".

→ She couldn't believe just how many employment-related sites there were out there in cyberspace. She immediately started her search by clicking on the link she found for MacDirectory's Online Job Opportunities. Within seconds she was sorting through a vast number of job postings, submitting her résumé to the leads that interested her most. She had received more replies from the employers on MacDirectory's Job Opportunity Posting in three days than she had gotten in three months by searching through pointless classifieds and approaching countless friends.

CONTINUED ON PAGE 96





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Online employee recruiting is a rapidly growing facet of the Internet. Although companies still seem to prefer newsprint ads to online postings, there is a strong trend among corporations which is clearly pointing toward a boom in online employee recruiting. A recent USA Today poll shows that 44% of responding companies intend to rely upon newsprint ads as their main form of recruiting, while 5% rely more heavily on the Internet. However, 38%

"The Internet is clearly becoming a mainstream recruiting medium."

of firms with Web sites of their own will be taking résumés and applications online this year, compared to the mere 17% in 1998. A 1999 American Management poll showed how 42% of the 407 companies it surveyed posted job opportunities on job-search sites. The Internet is clearly becoming a mainstream recruiting medium.

Internet ads vs. Newsprint Ads

For both employers and prospective employees there are unequivocal benefits to the online job postings. First and foremost, a newsprint ad costs a mint to place. Rates for a three line ad can easily exceed \$300.00 for a four week run. In addition newsprint reaches a physical audience that is limited to the geographical distribution of its readership. Many sites on the Internet offer free job postings for employers and employees in exchange for a concise registration form. However, some sites like MacDirectory's Job Opportunities does not require registration nor does it charge any fees to submit or view employment opportunities. Some of the larger sites charge approximately \$150.00 to place an ad of any length to run for 30 days. The Internet is both cheaper and more accessible to applicants that may not live in your neighborhood.

FOR MACINTOSH JOB OPPORTUNITIES GO TO: WWW.MACDIRECTORY.COM/PAGES/JOBS.HTML OR CHECK OUT THESE GREAT RESOURCES:

WWW,AMERICANJOBS.COM www.aquent.coM WWW.BESTJOBSUSA.COM WWW.CARFERMOSAIC.COM WWWNEW.CAREERPATH.COM WWW.COMPUTERJOBS.COM WWW.IOBS-ONLINE.NET WWW.MACDIRECTORY.COM www.nynma.org/Jobs



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Apple Solution Experts are independent consultants, trainers, Value Added Resellers, and Apple Specialist Resellers in the United States and Canada specializing in solutions for the Macintosh who can provide the support you need to run your business effectively. More information about the companies listed here can be found in the directory at www.apple.com/experts.

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NEW YORK NEW YORK NEW YORK NEW YORK NEW YORK OYSTER BAY PLATTSBURGH ROCHESTER ROCHESTER	*TECSOFT UCS *UNITED DIGITAL ARTISTS W. O'DONNELL CONSULTING, INC JOHN YOO	212-229-9400 212-363-4827 212-777-7200 212-838-3339 212-979-5035 516-922-4145 518-563-1356 716-232-6070 716-475-1390 716-724-9501	BROOMALL CHAMBERSBURG ELKINS PARK GLENSHAW LANCASTER LANCASTER LANCASTER LANDISVILLE	MATRX SYSTEMS	
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NEW YORK NEW YORK NEW YORK NEW YORK NEW YORK OYSTER BAY PLATTSBURGH ROCHESTER ROCHESTER	*TECSOFT UCS *UNITED DIGITAL ARTISTS W. O'DONNELL CONSULTING, INC JOHN YOO AHMAC ASSOCIATES INC TURN-KEY OFFICE SYSTEMS, INC AWARE SYSTEMS,INC DIGITAL IMAGE & SOUND CORP EASTMAN KODAK CO	212-229-9400 212-363-4827 212-777-7200 212-838-3339 212-979-5035 516-922-4145 518-563-1356 716-232-6070 7716-475-1390 7716-724-9501 516-751-6620 516-728-8897	BROOMALL CHAMBERSBURG ELKINS PARK GLENSHAW LANCASTER LANCASTER LANCASTER LANDISVILLE LANDISVILLE MECHANICSBURG	MATRX SYSTEMS	
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NEW YORK NEW YORK NEW YORK NEW YORK NEW YORK OYSTER BAY PLATTSBURGH ROCHESTER ROCHESTER ROCHESTER SETAUKET SHINNECOCK HILLS SUFFERN WHITE PLAINS YONKERS	*TECSOFT UCS *UNITED DIGITAL ARTISTS W. O'DONNELL CONSULTING, INC JOHN YOO AHMAC ASSOCIATES INC. TURN-KEY OFFICE SYSTEMS, INC. AWARE SYSTEMS, INC. DIGITAL IMAGE & SOUND CORP EASTMAN KODAK CO. STAFFORD ASSOC. COMPUTER SPCLSTS INC. MACTECH CONSULTANCY WORK OF ART PRODUCTIONS. DIGITAL SOUND & PICTURE, INC EVAN M. LONDON MACINTOSH COMPUTER CNS	212-229-9400 212-363-4827 212-777-7200 212-838-3339 212-979-5035 516-922-4145 518-563-1356 716-232-6070 716-724-9501 516-751-6620 516-728-8897 914-957-3378 914-997-9069 914-968-3612 914-591-4785	BROOMALL CHAMBERSBURG ELKINS PARK GLENSHAW LANCASTER LANCASTER LANDISVILLE LANDISVILLE MECHANICSBURG NEW KENSINGTON NEWTOWN PITTSBURGH PITTSBURGH	MATRX SYSTEMS SUNRISE COMPUTERS IT SOLUTIONS, INC *GRAPHIC SUPPORT SERVICES MAMMOTH CONCEPTS MARKETECH CONSULTING R.R.DONNELLEY & SONS CO., INC. G E RICHARDS GRAPHIC SUPPLIES CO INC. SAGE ADVICE LTD SPECTRACOMP MINSTRELS OF PANDAMONIUM *G2 COMPUTERS CDR SYSTEMS INC DISKRITER INC TASTAR DATA SYSTEMS, INC COMP TECH GROUP INC	
NEW YORK NEW YORK NEW YORK NEW YORK NEW YORK OYSTER BAY PLATTSBURGH ROCHESTER ROCHESTER ROCHESTER SETAUKET SHINNECOCK HILLS SUFFERN WHITE PLAINS YONKERS	*TECSOFT UCS *UNITED DIGITAL ARTISTS W. O'DONNELL CONSULTING, INC JOHN YOO AHMAC ASSOCIATES INC TURN-KEY OFFICE SYSTEMS, INC AWARE SYSTEMS, INC DIGITAL IMAGE & SOUND CORP EASTMAN KODAK CO STAFFORD ASSOC. COMPUTER SPCLSTS INC MACTECH CONSULTANCY WORK OF ART PRODUCTIONS DIGITAL SOUND & PICTURE, INC EVAN M. LONDON MACINTOSH COMPUTER CNS RMS NEW YORK, INC	212-229-9400 212-363-4827 212-777-7200 212-838-3339 212-979-5035 516-922-4145 518-563-1356 716-232-6070 716-724-9501 516-751-6620 516-728-8897 914-957-3378 914-997-9069 914-968-3612 914-591-4785	BROOMALL CHAMBERSBURG ELKINS PARK GLENSHAW LANCASTER LANCASTER LANDISVILLE LANDISVILLE LANDISVILLE MECHANICSBURG NEW KENSINGTON NEWTOWN PITTSBURGH PITTSBURGH	MATRX SYSTEMS SUNRISE COMPUTERS IT SOLUTIONS, INC *GRAPHIC SUPPORT SERVICES MAMMOTH CONCEPTS MARKETECH CONSULTING R. R. DONNELLEY & SONS CO., INC. GERICHARDS GRAPHIC SUPPLIES CO INC. SAGE ADVICE LTD SPECTRACOMP MINSTRELS OF PANDAMONIUM *G2 COMPUTERS CDR SYSTEMS INC DISKRITER INC TASTAR DATA SYSTEMS, INC COMP TECH GROUP INC MCMOBILE, INC	215-245-8144
NEW YORK NEW YORK NEW YORK NEW YORK NEW YORK OYSTER BAY PLATTSBURGH ROCHESTER ROCHESTER ROCHESTER SETAUKET SHINNECOCK HILLS SUFFERN WHITE PLAINS YONKERS YONKERS YOUNGSTOWN	*TECSOFT UCS *UNITED DIGITAL ARTISTS W. O'DONNELL CONSULTING, INC JOHN YOO AHMAC ASSOCIATES INC. TURN-KEY OFFICE SYSTEMS, INC. AWARE SYSTEMS, INC. DIGITAL IMAGE & SOUND CORP EASTMAN KODAK CO. STAFFORD ASSOC. COMPUTER SPCLSTS INC. MACTECH CONSULTANCY WORK OF ART PRODUCTIONS. DIGITAL SOUND & PICTURE, INC EVAN M. LONDON MACINTOSH COMPUTER CNS RMS NEW YORK, INC EDUTECH SUPPORT SERVICES, INC	212-229-9400 212-363-4827 212-777-7200 212-838-3339 212-979-5035 516-922-4145 518-563-1356 716-232-6070 716-724-9501 516-751-6620 516-728-8897 914-957-3378 914-997-9069 914-968-3612 914-591-4785	BROOMALL CHAMBERSBURG ELKINS PARK GLENSHAW LANCASTER LANCASTER LANCASTER LANDISVILLE MECHANICSBURG NEW KENSINGTON NEWTOWN PITTSBURGH PITTSBURGH PITTSBURGH READING UPPER DARBY WASHINGTON CRSS	MATRX SYSTEMS SUNRISE COMPUTERS IT SOLUTIONS, INC. *GRAPHIC SUPPORT SERVICES MAMMOTH CONCEPTS MARKETECH CONSULTING R.R.DONNELLEY & SONS CO., INC G E RICHARDS GRAPHIC SUPPLIES CO INC. SAGE ADVICE LTD SPECTRACOMP MINSTRELS OF PANDAMONIUM *G2 COMPUTERS CDR SYSTEMS INC DISKRITER INC DISKRITER INC TASTAR DATA SYSTEMS, INC COMP TECH GROUP INC MCMOBILE, INC SEALWORKS, INC	215-245-8144
NEW YORK NEW YORK NEW YORK NEW YORK NEW YORK OYSTER BAY PLATTSBURGH ROCHESTER ROCHESTER ROCHESTER SETAUKET SHINNECOCK HILLS SUFFERN WHITE PLAINS YONKERS	*TECSOFT UCS *UNITED DIGITAL ARTISTS W. O'DONNELL CONSULTING, INC JOHN YOO AHMAC ASSOCIATES INC. TURN-KEY OFFICE SYSTEMS, INC. AWARE SYSTEMS, INC. DIGITAL IMAGE & SOUND CORP EASTMAN KODAK CO. STAFFORD ASSOC. COMPUTER SPCLSTS INC. MACTECH CONSULTANCY WORK OF ART PRODUCTIONS. DIGITAL SOUND & PICTURE, INC EVAN M. LONDON MACINTOSH COMPUTER CNS RMS NEW YORK, INC EDUTECH SUPPORT SERVICES, INC	212-229-9400 212-363-4827 212-777-7200 212-838-3339 212-979-5035 516-922-4145 518-563-1356 716-232-6070 716-724-9501 516-751-6620 516-728-8897 914-957-3378 914-997-9069 914-968-3612 914-591-4785	BROOMALL CHAMBERSBURG ELKINS PARK GLENSHAW LANCASTER LANCASTER LANCASTER LANDISVILLE MECHANICSBURG NEW KENSINGTON NEWTOWN PITTSBURGH PITTSBURGH PITTSBURGH READING UPPER DARBY WASHINGTON CRSS WILLOW GROVE	MATRX SYSTEMS SUNRISE COMPUTERS IT SOLUTIONS, INC. *GRAPHIC SUPPORT SERVICES. MAMMOTH CONCEPTS MARKETECH CONSULTING R.R.DONNELLEY & SONS CO., INC. GE RICHARDS GRAPHIC SUPPLIES CO INC. SAGE ADVICE LTD. SPECTRACOMP MINSTRELS OF PANDAMONIUM *G2 COMPUTERS CDR SYSTEMS INC DISKRITER INC TASTAR DATA SYSTEMS, INC COMP TECH GROUP INC MCMOBILE, INC SEALWORKS, INC TRINET SYSTEMS, INC	215-245-8144
NEW YORK NEW YORK NEW YORK NEW YORK NEW YORK OYSTER BAY PLATTSBURGH ROCHESTER ROCHESTER ROCHESTER SETAUKET SHINNECOCK HILLS SUFFERN WHITE PLAINS YONKERS YONKERS YOUNGSTOWN	*TECSOFT UCS *UNITED DIGITAL ARTISTS W. O'DONNELL CONSULTING, INC JOHN YOO AHMAC ASSOCIATES INC. TURN-KEY OFFICE SYSTEMS, INC. AWARE SYSTEMS, INC. DIGITAL IMAGE & SOUND CORP EASTMAN KODAK CO. STAFFORD ASSOC. COMPUTER SPCLSTS INC. MACTECH CONSULTANCY. WORK OF ART PRODUCTIONS. DIGITAL SOUND & PICTURE, INC EVAN M. LONDON MACINTOSH COMPUTER CNS RMS NEW YORK, INC EDUTECH SUPPORT SERVICES, INC	212-229-9400 212-363-4827 212-777-7200 212-838-3339 212-979-5035 516-922-4145 518-563-1356 716-247-51390 716-724-9501 516-751-6620 516-728-8897 914-357-3378 914-997-9069 914-968-3612 914-591-4785 716-830-4400	BROOMALL CHAMBERSBURG ELKINS PARK GLENSHAW LANCASTER LANCASTER LANCASTER LANDISVILLE MECHANICSBURG NEW KENSINGTON NEWTOWN PITTSBURGH PITTSBURGH PITTSBURGH READING UPPER DARBY WASHINGTON CRSS WILLOW GROVE WYNNEWOOD	MATRX SYSTEMS SUNRISE COMPUTERS IT SOLUTIONS, INC. *GRAPHIC SUPPORT SERVICES MAMMOTH CONCEPTS MARKETECH CONSULTING R.R.DONNELLEY & SONS CO., INC. G E RICHARDS GRAPHIC SUPPLIES CO INC. SAGE ADVICE LTD. SPECTRACOMP MINSTRELS OF PANDAMONIUM *G2 COMPUTERS CDR SYSTEMS INC. DISKRITER INC TASTAR DATA SYSTEMS, INC. COMP TECH GROUP INC MCMOBILE, INC SEALWORKS, INC. TRINET SYSTEMS, INC. EPS ASSOCIATES, INC EPS ASSOCIATES, INC EPS ASSOCIATES, INC *GRAPHIC SERVICES **GRAPHIC SUPPLIES CO INC **GRAPHIC	215-245-8144
NEW YORK NEW YORK NEW YORK NEW YORK NEW YORK OYSTER BAY PLATTSBURGH ROCHESTER ROCHESTER ROCHESTER SETAUKET SHINNECOCK HILLS SUFFERN WHITE PLAINS YONKERS YONKERS YOUNGSTOWN NORTH CAROL RALEIGH	*TECSOFT UCS *UNITED DIGITAL ARTISTS W. O'DONNELL CONSULTING, INC JOHN YOO AHMAC ASSOCIATES INC. TURN-KEY OFFICE SYSTEMS, INC. AWARE SYSTEMS, INC. DIGITAL IMAGE & SOUND CORP EASTMAN KODAK CO STAFFORD ASSOC. COMPUTER SPCLSTS INC MACTECH CONSULTANCY. WORK OF ART PRODUCTIONS. DIGITAL SOUND & PICTURE, INC EVAN M. LONDON MACINTOSH COMPUTER CNS. RMS NEW YORK, INC EDUTECH SUPPORT SERVICES, INC LINA NRS TECHNOLOGIES	212-229-9400 212-363-4827 212-777-7200 212-838-3339 212-979-5035 516-922-4145 518-563-1356 716-232-6070 716-472-9501 516-751-6620 516-751-6620 516-751-6620 914-357-3378 914-997-9069 914-968-3612 914-591-4785 716-830-4400	BROOMALL CHAMBERSBURG ELKINS PARK GLENSHAW LANCASTER LANCASTER LANCASTER LANDISVILLE MECHANICSBURG NEW KENSINGTON NEWTOWN PITTSBURGH PITTSBURGH PITTSBURGH READING UPPER DARBY WASHINGTON CRSS WILLOW GROVE	MATRX SYSTEMS SUNRISE COMPUTERS IT SOLUTIONS, INC. *GRAPHIC SUPPORT SERVICES. MAMMOTH CONCEPTS MARKETECH CONSULTING R.R.DONNELLEY & SONS CO., INC. GE RICHARDS GRAPHIC SUPPLIES CO INC. SAGE ADVICE LTD. SPECTRACOMP MINSTRELS OF PANDAMONIUM *G2 COMPUTERS CDR SYSTEMS INC DISKRITER INC TASTAR DATA SYSTEMS, INC COMP TECH GROUP INC MCMOBILE, INC SEALWORKS, INC TRINET SYSTEMS, INC	215-245-8144
NEW YORK NEW YORK NEW YORK NEW YORK NEW YORK OYSTER BAY PLATTSBURGH ROCHESTER ROCHESTER ROCHESTER SETAUKET SHINNECOCK HILLS SUFFERN WHITE PLAINS YONKERS YOUNGSTOWN NORTH CARO RALEIGH RALEIGH	*TECSOFT UCS *UNITED DIGITAL ARTISTS W. O'DONNELL CONSULTING, INC JOHN YOO AHMAC ASSOCIATES INC TURN-KEY OFFICE SYSTEMS, INC DIGITAL IMAGE & SOUND CORP. EASTMAN KODAK CO STAFFORD ASSOC. COMPUTER SPCLSTS INC MACTECH CONSULTANCY. WORK OF ART PRODUCTIONS. DIGITAL SOUND & PICTURE, INC EVAN M. LONDON MACINTOSH COMPUTER CNS RMS NEW YORK, INC EDUTECH SUPPORT SERVICES, INC LINA NRS TECHNOLOGIES SERITEK	212-229-9400 212-363-4827 212-777-7200 212-838-3339 212-979-5035 516-922-4145 518-563-1356 716-232-6070 716-475-1390 516-751-6620 516-751-6620 516-728-8897 914-967-9069 914-968-3612 914-591-4785 716-830-4400	BROOMALL CHAMBERSBURG ELKINS PARK GLENSHAW LANCASTER LANCASTER LANCASTER LANDISVILLE MECHANICSBURG NEW KENSINGTON NEWTOWN PITTSBURGH PITTSBURGH PITTSBURGH READING UPPER DARBY WASHINGTON CRSS WILLOW GROVE WYNNEWOOD	MATRX SYSTEMS SUNRISE COMPUTERS IT SOLUTIONS, INC. *GRAPHIC SUPPORT SERVICES MAMMOTH CONCEPTS MARKETECH CONSULTING R.R.DONNELLEY & SONS CO., INC. G E RICHARDS GRAPHIC SUPPLIES CO INC. SAGE ADVICE LTD. SPECTRACOMP MINSTRELS OF PANDAMONIUM *G2 COMPUTERS CDR SYSTEMS INC. DISKRITER INC TASTAR DATA SYSTEMS, INC. COMP TECH GROUP INC MCMOBILE, INC SEALWORKS, INC. TRINET SYSTEMS, INC. EPS ASSOCIATES, INC EPS ASSOCIATES, INC EPS ASSOCIATES, INC *GRAPHIC SERVICES **GRAPHIC SUPPLIES CO INC **GRAPHIC	215-245-8144
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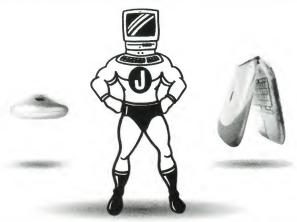
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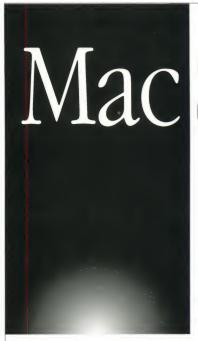
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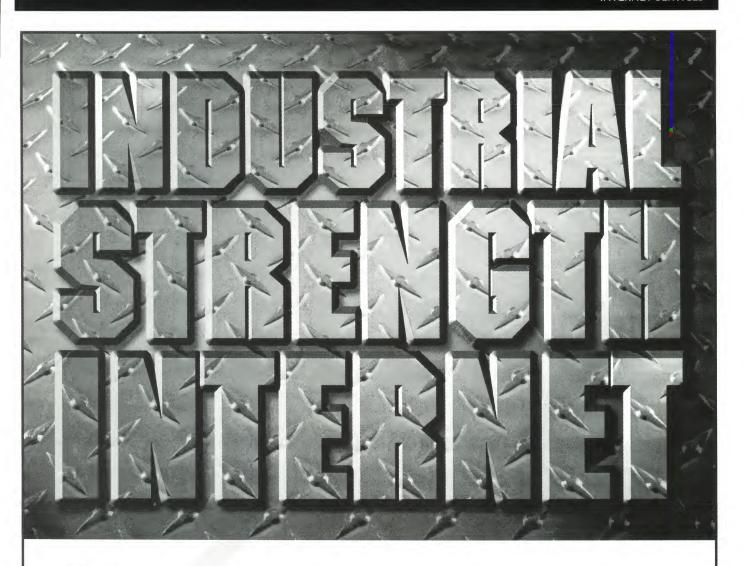
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FT. LAUDERDA HOLLYWOOD LARGO MIAMI MIAMI NAPLES POMPANO BEA SORRENTO GEORGIA ATLANTA ATLANTA ATLANTA ATLANTA	LE PARAGON NEXT VISION GRAPHICS INC HALLMARK CONSULTING INTERNATIONAL DATA CONSULTANTS30 MACPUBLIC, INC LD.E.A.S ACHRA SOLUTIONS, INC KELISYS TECHNOLOGIES INC IMAGERS INFINITE RESOURCES, INC LASER SOLUTIONS, INC ONLY MACS	954/726-9525 954/926-5467 727/536-1020 75/253-7677 305/232-8756 941/566-3091 954/941-6020 904/735-5238 800-232-5411 404/355-7607 77(0)92-3914 520/919-8277	FARMINGTON HI GRAND RAPIDS GRAND RAPIDS GRAND RAPIDS PLYMOUTH MINNESOTA CHANHASSEN EDINA GRAND RAPIDS MINNEAPOLIS MINNEAPOLIS MINNEAPOLIS MINNEAPOLIS	LLS JEDTECH CONSULTING		NEW YORK NORTHPORT ROCHESTER ROCHESTER	NOVAWORKS COMPUTER SYSTEMS, INC. NOW INFORMATION SYSTEMS, INC. OPTIMUM DESIGN & CONSULTING OWEN-GREENE CONSULTING POWER CONSULTING GROUP. SEVEN STAFFING INC. STATE OF THE ART, INC. TECHKNOWLEDGE/G TECSOFT. MACCONNECT. ITA, INC. KRAUS/LEFE/VRE STUDIO.	
FT. LAUDERDA HOLLYWOOD LARGO MIAMI MIAMI MIAMI NAPLES POMPANO BEA SORRENTO GEORGIA ATLANTA ATLANTA ATLANTA GRIFFIN	LE PARAGON NEXT VISION GRAPHICS INC HALLMARK CONSULTING INTERNATIONAL DATA CONSULTANTS30 MAGPUBLIC, INC ACHAS SOLUTIONS, INC KELISYS TECHNOLOGIES INC IMAGERS INFINITE RESOURCES, INC LASER SOLUTIONS, INC ONLY MACS J & J ENTERPRISES	954/726-9525 954/926-5467 727/536-1020 5/253-7677 305/232-8756 941/566-3091 954/941-6020 904/735-5238 800-232-5411 404/355-7607 77/092-3914 520/919-8277 770/228-6075	FARMINGTON HI GRAND RAPIDS GRAND RAPIDS PLYMOUTH MINNESOTA CHANHASSEN EDINA GRAND RAPIDS MINNEAPOLIS MINNEAPOLIS MINNEAPOLIS MINNEAPOLIS MINNEAPOLIS MINNEAPOLIS MINNEAPOLIS	LLS JEDTECH CONSULTING		NEW YORK NORTHPORT ROCHESTER RYE	NOVAWORKS COMPUTER SYSTEMS, INC. NOW INFORMATION SYSTEMS, INC. OPTIMUM DESIGN & CONSULTING OWEN-GREENE CONSULTING POWER CONSULTING GROUP. SEVEN STAFFING INC. STATE OF THE ART, INC. TECHKNOWLEDGE/G TECSOFT. MACCONNECT. ITA, INC. KRAUS/LEFEVRE STUDIO. MACINTOSH CONSULTING.	212/604-9999 212/953-7766 212/221-7559 212/663-5452 212/647-0377 212/254-8600 212/608-0908 212/254-8731 212/229-9400 516/754-3020 716/328-7380 716/266-8510 914/835-0355
FT. LAUDERDA HOLLYWOOD LARGO MIAMI MIAMI NAPLES POMPANO BEA SORRENTO GEORGIA ATLANTA ATLANTA ATLANTA ATLANTA	LE PARAGON NEXT VISION GRAPHICS INC HALLMARK CONSULTING INTERNATIONAL DATA CONSULTANTS30 MACPUBLIC, INC LD.E.A.S ACHRA SOLUTIONS, INC KELISYS TECHNOLOGIES INC IMAGERS INFINITE RESOURCES, INC LASER SOLUTIONS, INC ONLY MACS	954/726-9525 954/926-5467 727/536-1020 5/253-7677 305/232-8756 941/566-3091 954/941-6020 904/735-5238 800-232-5411 404/355-7607 770/992-3914 520/919-8277 770/228-6075 770/973-1121	FARMINGTON HI GRAND RAPIDS GRAND RAPIDS GRAND RAPIDS PLYMOUTH MINNESOTA CHANHASSEN EDINA GRAND RAPIDS MINNEAPOLIS MINNEAPOLIS MINNEAPOLIS MINNEAPOLIS	LLS JEDTECH CONSULTING		NEW YORK NORTHPORT ROCHESTER RYE SHINN HILLS	NOVAWORKS COMPUTER SYSTEMS, INC. NOW INFORMATION SYSTEMS, INC. OPTIMUM DESIGN & CONSULTING OWEN-GREENE CONSULTING POWER CONSULTING GROUP. SEVEN STAFFING INC. STATE OF THE ART, INC. TECHKNOWLEDGE/G TECSOFT. MACCONNECT. ITA, INC. KRAUS/LEFEVRE STUDIO. MACINTOSH CONSULTING. MACTECH CONSULTING.	212/604-9999 212/953-7766 212/221-7559 212/663-5452 212/647-0377 212/254-8600 212/608-0908 212/254-8731 212/229-9400 516/754-3020 716/328-7380 716/266-8510 914/835-0355 516/728-8897
FT. LAUDERDA HOLLYWOOD LARGO MIAMI MIAMI NAPLES POMPANO BEA SORRENTO GEORGIA ATLANTA ATLANTA ATLANTA GRIFFIN MARIETTA	LE PARAGON NEXT VISION GRAPHICS INC HALLMARK CONSULTING INTERNATIONAL DATA CONSULTANTS30 MACPUBLIC, INC I.D.E.A.S ACHRA SOLUTIONS, INC KELISYS TECHNOLOGIES INC IMAGERS INFINITE RESOURCES, INC LASER SOLUTIONS, INC ONLY MACS J & J ENTERPRISES PRESCIENT	954/726-9525 954/926-5467 727/536-1020 5/253-7677 305/232-8756 941/566-3091 954/941-6020 904/735-5238 800-232-5411 404/355-7607 770/992-3914 520/919-8277 770/228-6075 770/973-1121	FARMINGTON HI GRAND RAPIDS GRAND RAPIDS GRAND RAPIDS PLYMOUTH MINNESOTA CHANHASSEN EDINA GRAND RAPIDS MINNEAPOLIS MINNEAPOLIS MINNEAPOLIS MINNEAPOLIS MINNEAPOLIS MINNEAPOLIS MINNEAPOLIS MINNEAPOLIS	LLS JEDTECH CONSULTING		NEW YORK NORTHPORT ROCHESTER RYE	NOVAWORKS COMPUTER SYSTEMS, INC. NOW INFORMATION SYSTEMS, INC. OPTIMUM DESIGN & CONSULTING OWEN-GREENE CONSULTING POWER CONSULTING GROUP. SEVEN STAFFING INC. STATE OF THE ART, INC. TECHKNOWLEDGE/G TECSOFT. MACCONNECT. ITA, INC. KRAUS/LEFEVRE STUDIO. MACINTOSH CONSULTING.	212/604-9999 212/953-7766 212/261-7559 212/663-5452 212/647-0377 212/254-8600 212/608-0908 212/254-8731 212/229-9400 516/754-3020 716/328-7380 716/266-8510 914/835-0355 516/728-8897 315/793-0663



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INTERNET SERVICES PROVIDERS (ISP) - WEB PUBLISHING

S OURCE SYSTEMS	513/779-0200614/792-3400513/939-1311440/572-4490419/882-0472937/767-7174405/769-4848503/524-5776541/686-9855503/722-2110503/635-0205541/471-0028503/235-1964717/397-5007610/827-7025610/664-5528412/490-8536	City, Company N: THE FOLLOWING E-MAIL AND USE ARIZONA PHOENIX PRESCOTT CALIFORNIA LOS ANGELES MORGAN HILL PALO ALTO SACRAMENTO SAN PHANCISCO SAN FRANCISCO SAN LUIS OBISP SAN RAFAEL	MAC@HOME MAG CLINIC TECHNICAL SUPPORT SERVICES		NEW YORK NORTH CAROLIN RALEIGH PENNSYLVANIA GROVE CITY PHILADELPHIA PHILADELPHIA PHILADELPHIA PITTSBURGH WYNNEWOOD TEXAS AUSTIN DALLAS HOUSTON SAN ANTONIO	MULTIMEDIA TRAINING SOLUTIONS BELL ATLANTIC INTERNET SOLUTIONS (DSL) BELL ATLANTIC INTERNET SOLUTIONS (DSL) BELL ATLANTIC INTERNET SOLUTIONS (DSL) GLOBIX INFOHOUSE, INC. (TUNANET) INTERCOM ONLINE INTERPORT COMMUNICATIONS THE INTERNET ACCESS COMPANY WALRUS INTERNET MA INTERCOM ONLINE BELL ATLANTIC INTERNET SOLUTIONS (DSL) INTERCOM ONLINE BELL ATLANTIC INTERNET SOLUTIONS (DSL) INTERCOM ONLINE INTERCOM ONLINE INTERCOM ONLINE INTERCOM ONLINE	
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TION	503/722-2110503/635-0205541/471-0028503/235-1964717/397-5007610/827-7025610/664-5528412/490-8536	MORGAN HILL PALO ALTO SACRAMENTO SAN DIEGO SAN FRANCISCO SAN FRANCISCO SAN LUIS OBISP SAN RAFAEL WALNUT CREEK COLORADO DENVER DENVER DENVER	ALL-MAC ON SITE SERVICES INTERACTIVE INFORMATION. INTERCOM ONLINE INTERCOM ONLINE INTERCOM ONLINE OTHE GRID INFOASIS 5LINE COMMUNICATIONS CAFE@NETHERWORLD.		PHILADELPHIA PHILADELPHIA PITTSBURGH WYNNEWOOD TEXAS AUSTIN DALLAS HOUSTON SAN ANTONIO	BELL ATLANTIC INTERNET SOLUTIONS (DSL) INTERCOM ONLINE BELL ATLANTIC INTERNET SOLUTIONS (DSL) MICROSTAR, INC INTERCOM ONLINE INTERCOM ONLINE	800/373-3197 877/525-2375 877/525-2375 610/642-0307 800/373-3197 800/373-3197
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ARE COMPANY	541/471-0028 503/235-1964 717/397-5007 610/827-7025 610/664-5528 412/490-8536	SACRAMENTO SAN DIEGO SAN FRANCISCO SAN FRANCISCO SAN LUIS OBISP SAN RAFAEL WALNUT CREEK COLORADO DENVER DENVER DENVER	INTERCOM ONLINE	800/373-3197 800/373-3197 800/373-3197 800/606-1620 888/333-GRID 415/459-7991 626/296-9339	PITTSBURGH WYNNEWOOD TEXAS AUSTIN DALLAS HOUSTON SAN ANTONIO	BELL ATLANTIC INTERNET SOLUTIONS (DSL) MICROSTAR, INC INTERCOM ONLINE INTERCOM ONLINE	
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S INC	610/827-7025 610/664-5528 412/490-8536 401/785-2191	SAN FRANCISCO SAN LUIS OBISP SAN RAFAEL WALNUT CREEK COLORADO DENVER DENVER DENVER	PLANETERIA OTHE GRID INFOASIS SLINE COMMUNICATIONS CAFE@NETHERWORLD		AUSTIN DALLAS HOUSTON SAN ANTONIO	INTERCOM ONLINE	800/373-3197
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SYSTEMS GROUP FICS INCS	610/664-5528 412/490-8536 401/785-2191	COLORADO DENVER DENVER DENVER	5LINE COMMUNICATIONS	626/296-9339	HOUSTON SAN ANTONIO		
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S INC	401/785-2191	DENVER DENVER DENVER		303/861-9NET		AMERICAS COMPUTER COMPANY	
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ISULTANTS			NETHERWORLD.COM	303/861-8NET	WASHINGTON	BELL ATLANTIC INTERNET SOLUTIONS (DSL)	877/525-2375
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	843/722-7607	HARTFORD	IMAGINE.COM	800//00-5338	SEATTLE	DIGITAL.FOREST	425/483-0483
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MORRISTOWN RAMSEY	YUEY/LONIER, INC					
WARREN	RKR CONSULTING SERVICES		PROGRAMMING TOOLS- APPLE GUIDE		DIGITAL HARBOR, L.C., WWW.DHARBOR.COM	801/224-5184
TOTAL DE	THE TOTAL OF THE SELECTION OF THE SELECT	300/220-1334			GENIEWORKS, LLC, WWW.GENIEWORKS.COM	901/763-2314
NEW MEXICO			LAKEWOOD SOFTWARE, WWW.LAKEWOODSOFTWARE.COM	416/614-7794	ICORPS TECHNOLOGIES, INC., WWW.ICORPSTECH.COM	617/868-2000
	SUBIA	505/345-2636	STEPUP SOFTWARE, WWW.STEPUPSOFTWARE.COM		METROWERKS CORP, WWW.METROWERKS.COM	
DGGGENGUE					POWERPRODUCTION SOFTWARE, WWW.POWERPRODUCTION.C	
NEW YORK			PROGRAMMING TOOLS- APPLESCRIPT		SAMIZDAT PRODUCTIONS, WWW.TOLSTOY.COM	
BOHEMIA	HCS TRAINING CENTERS, LTD	516/981-1048	TROGRAMMING TOOLS / AT LESCHIT		SYMANTEC CORP., WWW.SYMANTEC.COM	
BRONXVILLE	LUNAGRAPHICS ASSOCIATES		ACME TECHNOLOGIES, WWW.ACMETECH.COM	203/431-1601	WALNUT CREEK CDROM, WWW.CDROM.COM	510/6/4-0/83
FARMINGOALE			DIGITAL TECHNOLOGY INTERNATIONAL, WWW.DTINT.COM		PROCE ANAMINIC TOOLS OOD	
NEW YORK	A TO A GRAPHIC SERVICES, INC		HI RESOLUTION, INC., WWW.HI-RESOLUTION.COM		PROGRAMMING TOOLS - OOP	
NEW YORK	BETA UNLIMITED	212/685-1886	ICORPS TECHNOLOGIES, INC., WWW.ICORPSTECH.COM		DI AQUIDOADD TEQUINOLOGY MANUAURITEGU COM	440/050 0000
NEW YORK	COLORBANK DIGITAL SOURCES	212/929-7083	MAIN EVENT SOFTWARE, WWW.MAINEVENT.COM	202/298-9595	BLACKBOARD TECHNOLOGY, WWW.BBTECH.COM ICONIX SOFTWARE ENGINEERING INC, WWW.ICONIXSW.COM	
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NEW YORK	O & B REPRODUCTIONS	212/243-1360	RANDOM HOUSE , WWW.RANDOMHOUSE.COM		INTERACTIVE SOFTWARE ENGINEERING, INC., WWW.EIFFEL.COM	
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NEW YORK	FLUX MEDIA DESIGN	212/974-8132	USERLAND SOFTWARE INC, WWW.SCRIPTING.COMFRONTIER	. 415/851-/083	POET SOFTWARE CORPORATION, WWW.POET.COM	650/286-4640
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COLUMBUS	CROSSWORD SOLUTIONS, INC	614/258-0258	7777		A DIZONA	
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MAINE SOUTH BERWIC MASSACHUSET AMHERST CAMBRIDGE CARLISLE NORTH READIN WESTFORD MARYLAND ANNAPOLIS	K MYRIAD SYSTEMS TES JP COMPUTER RESOURCES ANGELFISH DEVELOPMENT PHOTON, INC. 3RD MILLENNIUM, INC. G STRATEX, INCORPORATED JOHN PYRA CONSULTING	207/384-5521 413/256-4569 508/653-5285 617/661-9046 508/371-2633 978/276-1305 508/692-8070 410/573-7140
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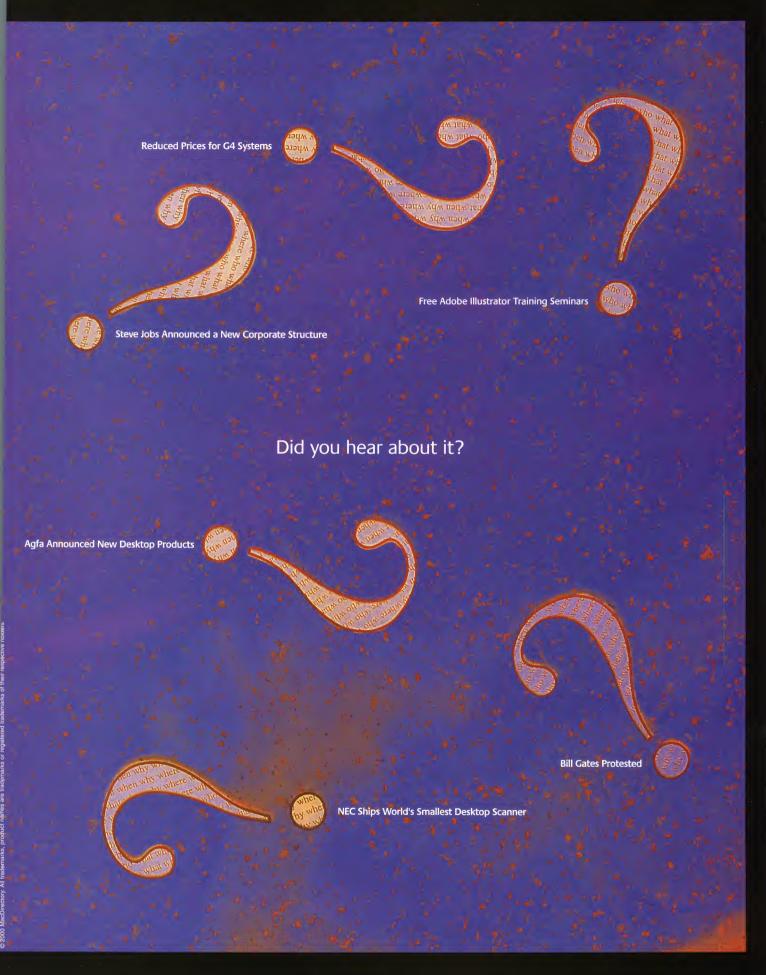
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MAC DS WORLDHTTP://WWW.MACOSWORLD.COM WEEKLY FEATURES, FREE TECH SUPPORT, JAVA CHAT, MESSAGE BOARDS	MACS.BON.NET	SHERLOCK PLUG-INSHTTP://MEMBERS.HOME.COM/DJWANG/SHERLOCK/PROVIDES SHERLOCK PLUG-INS AND A SHERLOCK PLUG-IN DIRECTORY
MAC USERS MILITIA JOURNAL	MACSU.N.I.T.E., HTTP://MEMBERS.AOL.COM/KCSTARGUY/MACSUNITE/UNITE.HTM PROVIDES INFORMATION ABOUT MAC AND TECH NEWS, EDUCATION, APPLICA-	SOUND SCULPTOR II
MAC-0-RAMAHTTP://WWW.MAG-0-RAMA.COM ONLINE SOFTWARE STORE THAT SPECIALIZES IN MAC GAMES.	TIONS AND MICROWORLD ENVIROMENTS MACTECH'S UNIVERSE	STEEL VALOR
MAC/APPLE NEWSHTTP://WWW.CURRENTS.NET/NEWSTODAY/MACNEWS.HTML MAC, IMAC, APPLE NEWS.	NEWS, MAGAZINES, REALPLAYER, DEVELOPERS, CUSTOMER SERVICE	SPECIALIZING IN MEDIEVAL, SCI-FI & FANTASY GAMES, REVIEWS, GIVEWAYS, DOWNLOADS, RELEASE DATES & MORE
MACADO SOFTWAREHTTP://WWW.MACADO.COM MACADO SOFTWARE /FREEWARE SHERLOCK PLUGINS	MACTIPS	THE COMPLETE MAC ADVOCACY SITE DOL.NET/-RAGOSTA/COMPLMAC.HTM LISTS MAC VS. WINDOWS INFORMATION, LINKS TO MAC SITES WORLDWIDE
MACBOOT ONLINE	MACTUNERHTTP://WWW.MACTUNER.COM/ MACTUNER INTERNET GLOBAL MEDIA RECEIVER	THE EGAD PAGESHTTP://WWW.EGAD.ORG/EGAD MAC SHAREWARE, FREEWARE, FREE PUBLIC BETAS, FONTS AND MORE
MACCHART - RESOURCES FOR THE SAVVY INVESTOR	MACWINDOWS	THE GADGET SITEHTTP://HOMEPAGES.ENTERPRISE.NET/ENOSIS00000/ MAC ACCESORIES AND GADGETS
MACCLUB.NET	MACZ SOFTWAREHTTP://WELCOME.TO/MACZ MACZ SOFTWARE MAKES TOOLS FOR YOUR MAC TO SIMPLIFY YOUR LIFE	THE IMAC 512HTTP://WWW.ATHENET.NET/~GYOUNK/IMAC512.HTM SUPPORTING THE IMAC WITH OUR Q&A AREA.
MACCONSULTANTS ONLINEHTTP://WWW.MACCONSULTANTS.COM MACPRODUCTS INFORMATION AND ORDERING	MEGAMACHTTP://WWW.MEGAMAC.COM THE BRAZILIAN MACINTOSH WEB SITE	THE MAC HANGOUT
MACDEPOTHTTP://WWW.GEOCITIES.COM/~MACDEPOT/ NEWS, RUMORS, LINKS, AND GREAT GRAPHICS ABOUT MACINTOSH COMPUTERS.	MEGAMACS	THE MACINTOSH SEARCH ENGINEHTTP://SEARCH.APPLELINKS.COM/ MACINTOSH SEARCH ENGINE CONTAINS MAC-CENTRIC SITES
MACDESKTOP.COM	MIRAMAR SYSTEMS, INCHTTP://WWW.MIRAMARSYS.COM	THE MACOS DIGEST
REVIEWS, INTERVIEWS AND DESKTOP PICTURES MACFURY.COM	MIRAMAR SYSTEMS IS A GLOBAL LEADER IN PC-TO-MAC CONNECTIVITY. AS AMULTI-AWARD WINNING APPLICATION, PC MACLAN OFFERS COMPREHENSIVE AND FLEXIBLE CROSS-PLATFORM NETWORKING SOLUTIONS. IT ALLOWS WINDOWS 95, 98, AND NT SYSTEMS TO SHARE FILES, DRIVES AND PRINTERS WITH MACS BI-DIRECTIONALY OVER A LAN, PHONE LINE, OR THE INTERNET.	THE MACSAJT.COM
MACGEEKSHTTP://WWW.MACGEEKS.COM DAILY NEWS, INFORMATION, SOFTWARE, PRODUCT REVIEWS AND SPECIAL FEA- TURES.	MIRRORSHTTP://MIRRORS.SIMPLENET.COM APPLE SOFTWARE UPDATES MIRRORED, MACPLAY DEMOS, AND MOD FILES.	THE MINING COMPANY'S MACINWATCHHTTP://MACOS.MININGCO.COM MAC OS INFORMATION; WEEKLY ARTICLE AND ANNOTATED LINKS
MACINFIND.COM	MONKEY BYTE ONLINE	"THE ULTIMATE IMAC BOOK" HOME PAGEHTTP://WWW.IMACBOOK.COM "THE ULTIMATE IMAC BOOK", THE LATEST BOOK BY DAN PARKS SYDOW, IS AVAIL- ABLE HERE
MACINSTEIN	MACINTOSH RESOURCES SITEHTTP://WWW.NYMAC.COM	THINK DIFFERENT
MACINSTEIN.COM SEARCH ENGINE - MACS ALLREADY KEYWORD MACINTOSH INTERGALACTIC NEWSHTTP://WWW.MACINEWS.COM	OPENMAC HELP	VERTIGO: THE ULTIMATE MACINTDSH GAMING RESDURCE MACVERTIGO.COM
DAILY MACINTOSH NEWS. STAY INFORMED.	OUTBOUND SERVICE & SUPPORTHTTP://SURF.TO/OUTBOUND	DAILY MAC GAMING NEWS, REVIEWS, PREVIEWS, GAME SOFTWARE TRACKING, EDITORIALS, AND MORE.
MACINTOSH INTERNET MAGAZINEHTTP://WWW.BSRP.COM/MACNETMAG DAILY NEWS AND WEEKLY ARTICLES AND REVIEWS	PROVIDING SUPPORT FOR THE OUTBOUND SYSTEM'S LINE OF COMPUTERS.	WEBFIX WEB DESIGN AND DEVELOPMENT
MACLIFEHTTP://MEMBERS.XOOM.COM/GHOWEY	PDISALES.COM	WEB DEVELOPMENT, SITE ARCHITECTURE, MULTIMEDIA DESIGN, MACINTOSH CONSULTING.
MACMANIAHTTP://WWW.MANIA.TIERRANET.COM NEWS, GAMES, SOFTWARE, INTERFACE CUSTOMIZATION, LINKS AND MAILING LISTS	PHOTOSHOP TIPS & TRICKS HTTP://WWW.GRAPHIC-DESIGN.COM/PHOTOSHOP/PHOTOSHOP TIPS & TRICKS NEWSLETTER FOR PIXELCRAFTERS, ILLUSTRATORS, PHOTOGRAPHERS	WEBINTOSH
MACNOLOGISTHTTP://WWW.MACNOLOGIST.COM/ Y2K INFO, COMPANIES THAT USE MACS, EMPLOYMENT, ADS, AUCTION, AND OTHER RESOURCES	PIPER COMPUTER SERVICESHURRICANE.NET/-GREGARIOS/LINK.HTML APPLE SOFTWARE, SUPPORT, TROUBLESHOOTING, CONFIGURATION, AND WEB SITE DESIGN	WEBMAKE - THE WEBMASTER'S RESOURCE CENTER
MACNUTHTTP://WWW.MAC-NUT.COM	POWER ON SOFTWAREHTTP://WWW.POWERONSW.COM DESKTOP CONFIGURAATION SECURITY AND LAN MANAGEMENT TOOLS.	WORLD OF MACINTOSH LINKSHTTP://WWW.FREEMARKETINGFX.COM/MAC A COLLECTION OF MACINTOSH LINKS
LATEST INFO FROM THE MAC COMMUNITY MACDS GAMER	PROCYON SYSTEMS ASTRONOMY SITEHTTP://WWW.PROCYON-SYS.COM MAC ASTRONOMY SOFTWARE WITH ASTRO IMAGES AND LINKS.	

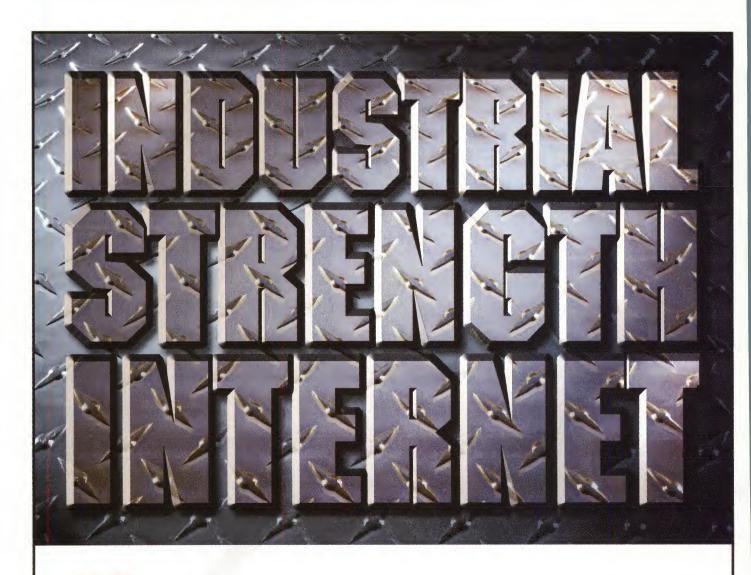
MacDirectory Memory Guide

COMPLETED MODEL	AAFAAODY TYDE	LATALODY COSED					
COMPUTER MODEL	MEMORY TYPE	MEMORY SPEED	MIN RAM	MAX RAM	MEMORY SIZE	INSTALL IN GROUPS	NO. OF SLOTS
MACINTOSH 128K	N/A	N/A	0.125MB	0.125MB	N/A	N/A	0
MACINTOSH 512K	N/A	N/A	0.5MB	0.5MB	N/A	N/A	0
MACINTOSH XL	LISA CARDS	N/A	0.5MB	2MB	512K	1	2
MACINTOSH PLUS	30-PIN SIMM	150 NS	1MB	4MB	256K, 1MB	2	4
MACINTOSH 512KE	N/A	N/A	0.5MB	0.5MB	N/A	N/A	0
MACINTOSH SE	30-PIN SIMM	150 NS	1MB	4MB	256K, 1MB	2	4
MACINTOSH II	30-PIN SIMM	120 NS	1MB	20MB			
MACINTOSH IIX					256K, 1, 4MB	4	8
	30-PIN SIMM	120 NS	1MB	32MB	256K, 1, 4MB	4	8
MACINTOSH SE/30	30-PIN SIMM	120 NS	1MB	32MB	256K, 1, 4MB	4	8
MACINTOSH IICX	30-PIN SIMM	120 NS	1MB	128MB	256K, 1, 4, 16MB	4	8
MACINTOSH IICI	30-PIN SIMM	80 NS	1MB	128MB	256K, 512K, 1, 2, 4, 16MB	4	8
MACINTOSH PORTABLE	PORTABLE	100 NS	1MB	8MB	1-8MB	1	1
MACINTOSH IIFX	64-PIN SIMM	80 NS	4MB	128MB		4	1
					1, 4, 16MB		8
MACINTOSH CLASSIC	30-PIN SIMM	120 NS	1MB	4MB	256K, 1MB	2	2
MACINTOSH IISI	30-PIN SIMM	100 NS	1MB	17MB	256K, 512K, 1, 2, 4MB	4	4
MACINTOSH LC	30-PIN SIMM	100 NS	2MB	10MB	1, 2, 4MB	2	2
MACINTOSH CLASSIC II	30-PIN SIMM	100 NS	2MB	10MB	1, 2, 4MB	2	2
MACINTOSH QUADRA 700	30-PIN SIMM	80 NS	4MB	20MB	1, 4MB	4	4
MACINTOSH QUADRA 900	30-PIN SIMM	80 NS	4MB	256MB		4	
					1, 4, 8, 16MB	·	16
MACINTOSH POWERBOOK 100	PB1XX	100 NS	2MB	8MB	2, 4, 6MB	1	1
MACINTOSH POWERBOOK 140	PB1XX	100 NS	2MB	8MB	2, 4, 6MB	1	1
MACINTOSH POWERBOOK 170	PB1XX	100 NS	2MB	8MB	2, 4, 6MB	1	1
MACINTOSH LC II	30-PIN SIMM	100 NS	4MB	10MB	1, 2, 4MB	2	2
MACINTOSH QUADRA 950	30-PIN SIMM	80 NS	4MB	256MB	1, 4, 8, 16MB	4	16
MACINTOSH POWERBOOK 145	PB1XX	100 NS	2MB	8MB	2, 4, 6MB	1	1
						2	
MACINTOSH PERFORMA 200	30-PIN SIMM	100 NS	2MB	10MB	1, 2, 4MB		2
MACINTOSH PERFORMA 430	30-PIN SIMM	100 NS	4MB	10MB	1, 2, 4MB	2	2
MACINTOSH PERFORMA 600 AND 600CD	30-PIN SIMM	80 NS	4MB	68MB	256K, 1, 2, 4, 16MB	4	4
MACINTOSH POWERBOOK 160	PB1XX	85 NS	4MB	14MB	2, 4, 10MB	1	1
MACINTOSH POWERBOOK 180	PB1XX	85 NS	4MB	14MB	2, 4, 6, 8, 10MB	1	1
MACINTOSH POWERBOOK DUO 210	DUO	70 NS	4MB	24MB	4-20MB	1	1
MACINTOSH POWERBOOK DUO 230	DUO	70 NS	4MB	24MB	4-20MB	1	1
MACINTOSH IIVI	30-PIN SIMM	80 NS	4MB	68MB	256K, 1, 2, 4, 16MB	4	4
MACINTOSH IIVX	30-PIN SIMM	80 NS	4MB	68MB	256K, 1, 2, 4, 16MB	4	4
MACINTOSH COLOR CLASSIC	30-PIN SIMM	100 NS	4MB	10MB	1, 2, 4MB	2	2
MACINTOSH LC III	72-PIN SIMM	80 NS	4MB	36MB	1, 2, 4, 8, 16, 32MB	1	1
	72-PIN SIMM	80 NS	4MB	68MB	4, 8, 16, 32MB	1	2
MACINTOSH CENTRIS 610						1	
MACINTOSH CENTRIS 650	72-PIN SIMM	80 NS	4MB	132, 136MB	4, 8, 16, 32MB	1	4
MACINTOSH QUADRA 800	72-PIN SIMM	60 NS	8MB	136MB	4, 8, 16, 32MB	1	4
MACINTOSH POWERBOOK 165C	PB1XX	85 NS	4MB	14MB	2, 4, 10MB	1	1
MACINTOSH PERFORMA 450	72-PIN SIMM	80 NS	4MB	36MB	1, 2, 4, 8, 16, 32MB	1	1
MACINTOSH LC 520	72-PIN SIMM	80 NS	4MB	36MB	1, 2, 4, 8, 16, 32MB	1	1
		100 NS	4MB	8MB	2, 4MB	1	1
MACINTOSH POWERBOOK 145B	PB1XX						
MACINTOSH POWERBOOK 180C	PB1XX	85 NS	4MB	14MB	2, 4, 6, 8, 10MB	1	1
MACINTOSH CENTRIS 660AV	72-PIN SIMM	70 NS	4MB	68MB	4, 8, 16, 32MB	1	2
MACINTOSH QUADRA 840AV	72-PIN SIMM	60 NS	4MB	128MB	4, 8, 16, 32MB	1	4
MACINTOSH POWERBOOK 165	PB1XX	85 NS	4MB	14MB	2, 4, 10MB	1	1
MACINTOSH LC 475	72-PIN SIMM	80 NS	4MB	36MB	1, 2, 4, 8, 16, 32MB	1	1
		80 NS	4MB	36MB		1	1
MACINTOSH QUADRA 605	72-PIN SIMM				1, 2, 4, 8, 16, 32MB		_
MACINTOSH QUADRA 610	72-PIN SIMM	80 NS	4MB	68MB	4, 8, 16, 32MB	1	2
MACINTOSH QUADRA 650	72-PIN SIMM	80 NS	4MB	132, 136MB	4, 8, 16, 32MB	1	4
MACINTOSH QUADRA 660AV	72-PIN SIMM	70 NS	4MB	68MB	4, 8, 16, 32MB	1	2
MACINTOSH PERFORMA 460	72-PIN SIMM	80 NS	4MB	36MB	1, 2, 4, 8, 16, 32MB	1	1
MACINTOSH PERFORMA 475	72-PIN SIMM	80 NS	4MB	36MB	1, 2, 4, 8, 16, 32MB	1	1
MACINTOSH PERFORMA 550	72-PIN SIMM	80 NS	4MB	36MB	1, 2, 4, 8, 16, 32MB	1	1
					4-20MB		1
MACINTOSH POWERBOOK DUO 250	DUO	70 NS	4MB	24MB			
MACINTOSH POWERBOOK DUO 270C	DUO	70 NS	4MB	32MB	4-28MB	1	1
MACINTOSH LC 550	72-PIN SIMM	80 NS	4MB	36MB	1, 2, 4, 8, 16, 32MB	1	1
MACINTOSH LC 575	72-PIN SIMM	80 NS	4MB	36MB	1, 2, 4, 8, 16, 32MB	1	1
POWER MACINTOSH 6100/60	72-PIN SIMM	80 NS	8MB	72MB	4, 8, 16, 32MB	2	2
POWER MACINTOSH 7100/66	72-PIN SIMM	80 NS	8MB	136MB	4, 8, 16, 32MB	2	4
POWER MACINTOSH 7100/66	72-PIN SIMM	80 NS	8MB	264MB	4, 8, 16, 32MB	2	8
						1	1
MACINTOSH POWERBOOK DUO 280	DUO	70 NS	4MB	40MB	4-36MB	1	
MACINTOSH POWERBOOK DUO 280C	DUO	70 NS	4MB	40MB	4-36MB	1	1
MACINTOSH PERFORMA 275	72-PIN SIMM	80 NS	4MB	36MB	1, 2, 4, 8, 16, 32MB	1	1
MACINTOSH PERFORMA 400	30-PIN SIMM	100 NS	4MB	10MB	1, 2, 4MB	2	2
MACINTOSH PERFORMA 405	30-PIN SIMM	100 NS	4MB	10MB	1, 2, 4MB	2	2
MACINTOSH PERFORMA 410	30-PIN SIMM	100 NS	4MB	10MB	1, 2, 4MB	2	2
MACINTOSH PERFORMA 466	72-PIN SIMM	80 NS	4MB	36MB	1, 2, 4, 8, 16, 32MB	1	1
MACINTOSH PERFORMA 466 MACINTOSH PERFORMA 467	72-PIN SIMM	80 NS	4MB	36MB	1, 2, 4, 8, 16, 32MB	1	1
MACINTOSH PERFORMA 476	72-PIN SIMM	80 NS	4MB	36MB	1, 2, 4, 8, 16, 32MB	1	1
MACINTOSH TV	72-PIN SIMM	80 NS	4MB	8MB	1, 4MB	1	1
MACINTOSH POWERBOOK 520	PB5XX	70 NS	4MB	36MB	4, 8, 12, 20, 32MB	1	1
MACINTOSH POWERBOOK 520C	PB5XX	70 NS	4MB	36MB	4, 8, 12, 20, 32MB	1	1
MACINTOSH POWERBOOK 540	PB5XX	70 NS	4MB	36MB	4, 8, 12, 20, 32MB	1	1
MACINTOSH POWERBOOK 540C	PB5XX	70 NS	4MB	36MB	4, 8, 12, 20, 32MB	1	1
	DUO	70 NS	4MB	40MB	4, 8, 20, 36MB	1	1
MACINTOSH POWERBOOK 150				36MB	1, 2, 4, 8, 16, 32MB	1	1
MACINTOSH LC 630	72-PIN SIMM	80 NS	4MB			1	1
MACINTOSH QUADRA 630	72-PIN SIMM	80 NS	4MB	36MB	1, 2, 4, 8, 16, 32MB	1	1
MACINTOSH PERFORMA 630 AND 630CD	72-PIN SIMM	80 NS	4MB	36MB	1, 2, 4, 8, 16, 32MB	1	1
POWER MACINTOSH 6100/60AV	72-PIN SIMM	80 NS	8MB	72MB	4, 8, 16, 32MB	2	2
MACINTOSH PERFORMA 635CD	72-PIN SIMM	80 NS	5MB	36MB	1, 2, 4, 8, 16, 32MB	1	1
	72-PIN SIMM	80 NS	4MB	36MB	1, 2, 4, 8, 16, 32MB	1	1
MACINTOSH PERFORMA 636 AND 636CD						1	1
MACINTOSH PERFORMA 637CD	72-PIN SIMM	80 NS	8MB	36MB	1, 2, 4, 8, 16, 32MB	•	1
MACINTOSH PERFORMA 638CD	72-PIN SIMM	80 NS	8MB	36MB	1, 2, 4, 8, 16, 32MB	1	1
	72-PIN SIMM	80 NS	8MB	136MB	4, 8, 16, 32MB	2	4
POWER MACINTOSH 7100/66AV	72 1114 31141141			201112	4 9 16 22MB	2	8
POWER MACINTOSH 7100/66AV POWER MACINTOSH 8100/80AV	72-PIN SIMM	80 NS	8MB	264MB	4, 8, 16, 32MB	2	0
POWER MACINTOSH 8100/80AV	72-PIN SIMM	80 NS 80 NS	8MB 16MB	264MB 264MB		2	8
POWER MACINTOSH 8100/80AV POWER MACINTOSH 8100/110	72-PIN SIMM 72-PIN SIMM	80 NS	16MB	264MB	4, 8, 16, 32MB	2	
POWER MACINTOSH 8100/80AV POWER MACINTOSH 8100/110 MACINTOSH PERFORMA 575	72-PIN SIMM 72-PIN SIMM 72-PIN SIMM	80 NS 80 NS	16MB 5MB	264MB 36MB	4, 8, 16, 32MB 1, 2, 4, 8, 16, 32MB	2	8
POWER MACINTOSH 8100/80AV POWER MACINTOSH 8100/110 MACINTOSH PERFORMA 575 MACINTOSH PERFORMA 577	72-PIN SIMM 72-PIN SIMM 72-PIN SIMM 72-PIN SIMM	80 NS 80 NS 80 NS	16MB 5MB 5MB	264MB 36MB 36MB	4, 8, 16, 32MB 1, 2, 4, 8, 16, 32MB 1, 2, 4, 8, 16, 32MB	2 1 1	8 1 1
POWER MACINTOSH 8100/80AV POWER MACINTOSH 8100/110 MACINTOSH PERFORMA 575	72-PIN SIMM 72-PIN SIMM 72-PIN SIMM	80 NS 80 NS	16MB 5MB	264MB 36MB	4, 8, 16, 32MB 1, 2, 4, 8, 16, 32MB	2	8

COMPUTER MODEL	MEMORY TYPE	MEMORY SPEED	MIN RAM	MAX RAM	MEMORY SIZE	INSTALL IN GROUPS	NO. OF SLOTS
MACINTOSH PERFORMA 250	30-PIN SIMM	100 NS	4MB	10MB	1, 2, 4MB	2	2
MACINTOSH PERFORMA 6110CD	72-PIN SIMM	80 NS	8MB	72MB	4, 8, 16, 32MB	2	2
MACINTOSH PERFORMA 6112CD	72-PIN SIMM	80 NS	8MB	72MB	4, 8, 16, 32MB	2	2
MACINTOSH PERFORMA 6115CD	72-PIN SIMM	80 NS	8MB	72MB	4, 8, 16, 32MB	2	2
MACINTOSH PERFORMA 6117CD	72-PIN SIMM	80 NS	8MB	72MB	4, 8, 16, 32MB	2	2
MACINTOSH PERFORMA 6118CD	72-PIN SIMM	80 NS	8MB	72MB	4, 8, 16, 32MB	2	2
	72-PIN SIMM		8MB	136MB	4, 8, 16, 32MB	1	4
WORKGROUP SERVER 80		60 NS				4	16
WORKGROUP SERVER 95	30-PIN SIMM	80 NS	8MB	256MB	1, 4, 8, 16MB		2
WORKGROUP SERVER 6150	72-PIN SIMM	80 NS	8MB	72MB	4, 8, 16, 32MB	2	
WORKGROUP SERVER 8150	72-PIN SIMM	80 NS	8MB	264MB	4, 8, 16, 32MB	2	8
WORKGROUP SERVER 9150	72-PIN SIMM	80 NS	8MB	264MB	4, 8, 16, 32MB	2	8
MACINTOSH DUO MINIDOCK	N/A	N/A	N/A	N/A	N/A	N/A	0
MACINTOSH DUO DOCK	N/A	N/A	N/A	N/A	N/A	N/A	0
POWERBOOK DUO DOCK II	N/A	N/A	N/A	N/A	N/A	N/A	0
POWER MACINTOSH 7100/80	72-PIN SIMM	80 NS	8MB	136MB	4, 8, 16, 32MB	2	4
POWER MACINTOSH 7100/80AV	72-PIN SIMM	80 NS	8MB	136MB	4, 8, 16, 32MB	2	4
POWER MACINTOSH 8100/100	72-PIN SIMM	80 NS	8MB	264MB	4, 8, 16, 32MB	2	8
POWER MACINTOSH 8100/100AV	72-PIN SIMM	80 NS	8MB	264MB	4, 8, 16, 32MB	2	8
POWER MACINTOSH 6100/66	72-PIN SIMM	80 NS	8MB	72MB	4, 8, 16, 32MB	2	2
POWER MACINTOSH 6100/66AV					4, 8, 16, 32MB	2	2
	72-PIN SIMM	80 NS	8MB	72MB			4
MACINTOSH SE FDHD	30-PIN SIMM	150 NS	1MB	4MB	256K, 1MB	2	4
MACINTOSH PERFORMA 560	72-PIN SIMM	80 NS	4MB	36MB	1, 2, 4, 8, 16, 32MB	1	1
MACINTOSH PERFORMA 520	72-PIN SIMM	80 NS	4MB	36MB	1, 2, 4, 8, 16, 32MB	1	1
POWER MACINTOSH 700	30-PIN SIMM	80 NS	4MB	20MB	1, 4MB	4	4
POWER MACINTOSH 800	72-PIN SIMM	60 NS	8MB	136MB	4, 8, 16, 32MB	1	4
POWER MACINTOSH 900	30-PIN SIMM	80 NS	4MB	256MB	1, 4, 8, 16MB	4	16
POWER MACINTOSH 950	30-PIN SIMM	80 NS	4MB	256MB	1, 4, 8, 16MB	4	16
POWER MACINTOSH C610	72-PIN SIMM	80 NS	4MB	68MB	4, 8, 16, 32MB	1	2
POWER MACINTOSH Q610	72-PIN SIMM	80 NS	4MB	68MB	4, 8, 16, 32MB	1	2
POWER MACINTOSH C650	72-PIN SIMM	80 NS	4MB	132, 136MB	4, 8, 16, 32MB	1	4
POWER MACINTOSH Q650	72-PIN SIMM	80 NS	4MB	132, 136MB	4, 8, 16, 32MB	1	4
POWER MACINTOSH 475/605	72-PIN SIMM	80 NS	4MB		1, 2, 4, 8, 16, 32MB	1	1
				36MB			1
POWER MACINTOSH 630	72-PIN SIMM	80 NS	4MB	36MB	1, 2, 4, 8, 16, 32MB	1	
POWER MACINTOSH 575	72-PIN SIMM	80 NS	4MB	36MB	1, 2, 4, 8, 16, 32MB	1	1
POWER MACINTOSH 5200/75 LC	72-PIN SIMM	80 NS	8MB	64MB	4, 8, 16, 32MB	1	2
MACINTOSH LC 580	72-PIN SIMM	80 NS	8MB	52MB	1, 2, 4, 8, 16, 32MB	1	2
MACINTOSH LC 630 DOS COMPATIBLE	72-PIN SIMM	80 NS	12MB	52MB	1, 2, 4, 8, 16, 32MB	1	2
WORKGROUP SERVER 6150/66	72-PIN SIMM	80 NS	16MB	72MB	4, 8, 16, 32MB	2	2
WORKGROUP SERVER 8150/110	72-PIN SIMM	80 NS	16MB	264MB	4, 8, 16, 32MB	2	8
WORKGROUP SERVER 9150/120	72-PIN SIMM	80 NS	16MB	264MB	4, 8, 16, 32MB	2	8
MACINTOSH LC III+	72-PIN SIMM	80 NS	4MB	36MB	1, 2, 4, 8, 16, 32MB	1	1
POWER MACINTOSH 580	72-PIN SIMM	80 NS	4MB	52MB	1, 2, 4, 8, 16, 32MB	1	2
MACINTOSH QUADRA 610	72-PIN SIMM	80 NS	4MB	68MB	4, 8, 16, 32MB	1	2
POWER MACINTOSH 6100/66	72-PIN SIMM	80 NS	8MB	72MB	4, 8, 16, 32MB	2	2
MACINTOSH PERFORMA 580CD	72-PIN SIMM	80 NS	8MB		1, 2, 4, 8, 16, 32MB	1	2
MACINTOSH PERFORMA 640CD				52MB			
	72-PIN SIMM	80 NS	8MB	52MB	1, 2, 4, 8, 16, 32MB	1	2
MACINTOSH PERFORMA 5200CD	72-PIN SIMM	80 NS	8MB	64MB	4, 8, 16, 32MB	1	2
POWERBOOK DUO DOCK PLUS	N/A	N/A	N/A	N/A	N/A	N/A	0
MACINTOSH PERFORMA 588CD	72-PIN SIMM	80 NS	8MB	52MB	1, 2, 4, 8, 16, 32MB	1	2
POWER MACINTOSH 8115/110	72-PIN SIMM	80 NS	8MB	264MB	4, 8, 16, 32MB	2	8
MACINTOSH PERFORMA 5210CD	72-PIN SIMM	80 NS	8MB	64MB	4, 8, 16, 32MB	1	2
MACINTOSH PERFORMA 5220CD	72-PIN SIMM	80 NS	8MB	64MB	4, 8, 16, 32MB	1	2
MACINTOSH PERFORMA 6200CD	72-PIN SIMM	80 NS	8MB	64MB	4, 8, 16, 32MB	1	2
POWER MACINTOSH 6200/75	72-PIN SIMM	80 NS	8MB	64MB	4, 8, 16, 32MB	1	2
POWER MACINTOSH 9500/120	168-PIN DIMM	70 NS	16MB	768MB	8, 16, 32, 64MB	1	12
POWER MACINTOSH 9500/132	168-PIN DIMM	70 NS	16MB	768MB	8, 16, 32, 64MB	1	12
WORKGROUP SERVER 60 (50/25 MHZ)	72-PIN SIMM	80 NS	8MB	68MB	4, 8, 16, 32MB	1	4
MACINTOSH POWERBOOK 550C	PB5XX	70 NS	12MB	36MB	4, 8, 12, 20, 32MB	1	1
MACINTOSH PERFORMA 631CD	72-PIN SIMM	80 NS				1	2
MACINTOSH PERFORMA 6116CD			8MB	52MB	1, 2, 4, 8, 16, 32MB	1	2
	72-PIN SIMM	80 NS	8MB	72MB	4, 8, 16, 32MB	2	2
MACINTOSH PERFORMA 5215CD	72-PIN SIMM	80 NS	8MB	64MB	4, 8, 16, 32MB	1	2
MACINTOSH PERFORMA 6216CD	72-PIN SIMM	80 NS	8MB	64MB	4, 8, 16, 32MB	1	2
MACINTOSH PERFORMA 6218CD	72-PIN SIMM	80 NS	16MB	64MB	4, 8, 16, 32MB	1	2
MACINTOSH PERFORMA 6220CD	72-PIN SIMM	80 NS	16MB	64MB	4, 8, 16, 32MB	1	2
MACINTOSH PERFORMA 6230CD	72-PIN SIMM	80 NS	16MB	64MB	4, 8, 16, 32MB	1	2
POWER MACINTOSH 8500/120	168-PIN DIMM	70 NS	16MB	512MB	8, 16, 32, 64MB	1	8
POWER MACINTOSH 7500/100	168-PIN DIMM	70 NS	8MB	512MB	8, 16, 32, 64MB	1	8
POWER MACINTOSH 7200/90	168-PIN DIMM	70 NS	8MB	256MB	8, 16, 32, 64MB	1	4
POWER MACINTOSH 7200/75	168-PIN DIMM	70 NS	8MB	256MB	8, 16, 32, 64MB	1	4
MACINTOSH POWERBOOK 190/66	PB53XX	70 NS	4MB	36, 40MB	4-32MB	1	1
MACINTOSH POWERBOOK 190CS/66	PB53XX	70 NS	4MB	36, 40MB	4-32MB	1	1
MACINTOSH POWERBOOK DUO 2300C/100	DUO	70 NS	8MB	56MB	4-48MB	1	1
MACINTOSH POWERBOOK 5300/100	PB53XX						
MACINTOSH POWERBOOK 5300CS/100	PB53XX	70 NS	8MB	64MB	8-56MB		1
		70 NS	8MB	64MB	8-64MB	1	1
MACINTOSH POWERBOOK 5300C/100	PB53XX	70 NS	8MB	64MB	8-64MB	1	1
MACINTOSH POWERBOOK 5300CE/117	PB53XX	70 NS	32MB	64MB	8-64MB	1	1
POWER MACINTOSH 5300/100 LC	72-PIN SIMM	80 NS	16MB	64MB	4, 8, 16, 32MB	1	2
MACINTOSH PERFORMA 6214CD	72-PIN SIMM	80 NS	8MB	64MB	4, 8, 16, 32MB	1	2
MACINTOSH PERFORMA 6300CD	72-PIN SIMM	80 NS	16MB	64MB	4, 8, 16, 32MB	1	2
MACINTOSH PERFORMA 5300CD	72-PIN SIMM	80 NS	16MB	64MB	4, 8, 16, 32MB	1	2
MACINTOSH PERFORMA 6205CD	72-PIN SIMM	80 NS	8MB	64MB	4, 8, 16, 32MB	1	2
POWER MACINTOSH 9515/132	168-PIN DIMM	70 NS	8MB	768MB	8, 16, 32, 64MB	1	12
MACINTOSH PERFORMA 6210CD	72-PIN SIMM	80 NS	16MB	64MB		1	2
					4, 8, 16, 32MB	1	
MACINTOSH PERFORMA 5320CD	72-PIN SIMM	80 NS	16MB	64MB	4, 8, 16, 32MB	1	2
POWER MACINTOSH 8515/120	168-PIN DIMM	70 NS	32MB	512MB	8, 16, 32, 64MB		8
POWER MACINTOSH 7215/90	168-PIN DIMM	70 NS	16MB	256MB	8, 16, 32, 64MB	1	4
MACINTOSH PERFORMA 630CD	72-PIN SIMM	80 NS	8MB	52MB	1, 2, 4, 8, 16, 32MB	1	2
MACINTOSH PERFORMA 6290CD	72-PIN SIMM	80 NS	8MB	64MB	4, 8, 16, 32MB	1	2
MACINTOSH POWERBOOK 500	PB5XX	70 NS	8MB	40MB	4, 8, 12, 20, 32MB	1	1
WORKGROUP SERVER 7250/120	168-PIN DIMM	70 NS	16MB	256MB	8, 16, 32, 64MB	1	4
WORKGROUP SERVER 8550/132	168-PIN DIMM	70 NS	24MB	512MB	8, 16, 32, 64MB	1	8
NETWORK SERVER 500/132	168-PIN DIMM	60 NS	32MB	512MB	8, 16, 32, 64MB	2	8

COMPUTER MODEL	MEMORY TYPE	MEMORY SPEED	MIN RAM	MAX RAM	MEMORY SIZE	INSTALL IN GROUPS 2	NO. OF SLOT
NETWORK SERVER 700/150	168-PIN DIMM	60 NS	32MB	512MB	8, 16, 32, 64MB 4, 8, 16, 32MB	1	2
MACINTOSH PERFORMA 6310CD	72-PIN SIMM	80 NS	16MB	64MB		1	4
WORKGROUP SERVER 60	72-PIN SIMM	80 NS	8MB	68MB	4, 8, 16, 32MB	1	2
POWER MACINTOSH 5400/120	168-PIN DIMM	70 NS	16MB	136MB	8, 16, 32, 64MB		
POWER MACINTOSH 5260/100	72-PIN SIMM	80 NS	16MB	64MB	4, 8, 16, 32MB	1	2
POWER MACINTOSH 7200/120	168-PIN DIMM	70 NS	8MB	256MB	8, 16, 32, 64MB	1	4
POWER MACINTOSH 7600/120	168-PIN DIMM	70 NS	8MB	512MB	8, 16, 32, 64MB	1	8
POWER MACINTOSH 8500/132	168-PIN DIMM	70 NS	16MB	512MB	8, 16, 32, 64MB	1	8
POWER MACINTOSH 8500/150	168-PIN DIMM	70 NS	16MB	512MB	8, 16, 32, 64MB	1	8
POWER MACINTOSH 9500/150	168-PIN DIMM	70 NS	8MB	768MB	8, 16, 32, 64MB	1	12
	72-PIN SIMM	80 NS	16MB	64MB	4, 8, 16, 32MB	1	2
MACINTOSH PERFORMA 6320CD	168-PIN DIMM	70 NS	8MB	256MB	8, 16, 32, 64MB	1	4
POWER MACINTOSH 7200/120		70 NS	8MB	256MB	8, 16, 32, 64MB	1	4
POWER MACINTOSH 8200/100	168-PIN DIMM			256MB	8, 16, 32, 64MB	1	4
POWER MACINTOSH 8200/120	168-PIN DIMM	70 NS	16MB	64MB	4, 8, 16, 32MB	1	2
MACINTOSH PERFORMA 5260CD	72-PIN SIMM	80 NS	8MB		8, 16, 32, 64MB	1	2
MACINTOSH PERFORMA 5400CD	168-PIN DIMM	70 NS	16MB	136MB		1	2
MACINTOSH PERFORMA 5270CD	72-PIN SIMM	80 NS	8MB	64MB	4, 8, 16, 32MB	1	2
MACINTOSH PERFORMA 5410CD	168-PIN DIMM	70 NS	16MB	136MB	8, 16, 32, 64MB	1	2
MACINTOSH PERFORMA 5420CD	168-PIN DIMM	70 NS	16MB	136MB	8, 16, 32, 64MB		12
POWER MACINTOSH 9500/180MP	168-PIN DIMM	70 NS	32MB	768MB	8, 16, 32, 64MB	1	
POWER MACINTOSH 9500/200	168-PIN DIMM	70 NS	16MB	768MB	8, 16, 32, 64MB	1	12
POWER MACINTOSH 8500/180	168-PIN DIMM	70 NS	16MB	512MB	8, 16, 32, 64MB	1	8
POWER MACINTOSH 7600/132	168-PIN DIMM	70 NS	8MB	512MB	8, 16, 32, 64MB	1	8
MACINTOSH PERFORMA 6400/180	168-PIN DIMM	70 NS	16MB	136MB	8, 16, 32, 64MB	1	2
	168-PIN DIMM	70 NS	16MB	136MB	8, 16, 32, 64MB	1	2
MACINTOSH PERFORMA 6400/200	72-PIN SIMM	80 NS	8MB	64MB	4, 8, 16, 32MB	1	2
MACINTOSH PERFORMA 6260CD	72-PIN SIMM	80 NS	16MB	64MB	4, 8, 16, 32MB	1	2
POWER MACINTOSH 6300/120		70 NS	16MB	136MB	8, 16, 32, 64MB	1	2
MACINTOSH PERFORMA 5400/160	168-PIN DIMM	70 NS	16MB	136MB	8, 16, 32, 64MB	1	2
MACINTOSH PERFORMA 5400/180	168-PIN DIMM		48MB	512MB	8, 16, 32, 64MB	2	8
NETWORK SERVER 700/200	168-PIN DIMM	60 NS		512MB	8, 16, 32, 64MB	1	8
WORKGROUP SERVER 8550/200	168-PIN DIMM	70 NS	32MB		8-24MB	1	1
MACINTOSH POWERBOOK 1400CS/117	PB1400	70 NS	12MB	64MB		1	1
MACINTOSH POWERBOOK 1400C/117	PB1400	70 NS	32MB	64MB	8-24MB	1	2
MACINTOSH PERFORMA 6360	168-PIN DIMM	70 NS	16MB	136MB	8, 16, 32, 64MB		2
POWER MACINTOSH 5400/180	168-PIN DIMM	70 NS	16MB	136MB	8, 16, 32, 64MB	1	
MACINTOSH PERFORMA 5260/120	72-PIN SIMM	80 NS	16MB	64MB	4, 8, 16, 32MB	1	2
MACINTOSH POWERBOOK 1400C/133	PB1400	70 NS	16MB	64MB	8-24MB	1	1
MACINTOSH PERFORMA 5440	168-PIN DIMM	70 NS	16MB	136MB	8, 16, 32, 64MB	1	2
MACINTOSH PERFORMA 5430	168-PIN DIMM	70 NS	16MB	136MB	8, 16, 32, 64MB	1	2
	168-PIN DIMM	70 NS	24MB	136MB	8, 16, 32, 64MB	1	2
MACINTOSH PERFORMA 6420	168-PIN DIMM	70 NS	16MB	136MB	8, 16, 32, 64MB	1	2
MACINTOSH PERFORMA 6410		80 NS	16MB	64MB	4, 8, 16, 32MB	1	2
MACINTOSH PERFORMA 5280	72-PIN SIMM		16MB	136MB	8, 16, 32, 64MB	1	2
POWER MACINTOSH 6400/200	168-PIN DIMM	70 NS	16MB	64MB	4, 8, 16, 32MB	1	2
POWER MACINTOSH 5260/120	72-PIN SIMM	80 NS		96MB	8, 16, 32MB	1	3
POWER MACINTOSH 4400/160	168-PIN DIMM	60 NS	16MB	768MB	8, 16, 32, 64MB	1	12
POWER MACINTOSH 9600/200	168-PIN DIMM	70 NS	32MB		8, 16, 32, 64MB	1	8
POWER MACINTOSH 8600/200	168-PIN DIMM	70 NS	32MB	512MB		1	8
POWER MACINTOSH 7600/200	168-PIN DIMM	70 NS	32MB	512MB	8, 16, 32, 64MB	1	8
POWER MACINTOSH 7300/200	168-PIN DIMM	70 NS	32MB	512MB	8, 16, 32, 64MB		8
POWER MACINTOSH 7300/180	168-PIN DIMM	70 NS	16MB	512MB	8, 16, 32, 64MB	1	
POWER MACINTOSH 4400/200	168-PIN DIMM	60 NS	16MB	160MB	8, 16, 32, 64MB	1	3
MACINTOSH POWERBOOK 3400C/180	PB 3400	60 NS	16MB	144MB	4-128MB	1	1
MACINTOSH POWERBOOK 3400C/200	PB 3400	60 NS	16MB	144MB	4-128MB	1	1
	PB 3400	60 NS	16MB	144MB	4-128MB	1	1
MACINTOSH POWERBOOK 3400C/240	168-PIN DIMM	70 NS	32MB	768MB	8, 16, 32, 64MB	1	12
POWER MACINTOSH 9600/200MP	168-PIN DIMM	70 NS	16MB	512MB	8, 16, 32, 64MB	1	8
POWER MACINTOSH 7300/166	168-PIN DIMM	70 NS	24MB	136MB	8, 16, 32, 64MB	1	2
POWER MACINTOSH 5400/200		60 NS	32MB	128MB	4, 8, 16, 32, 64MB	1	2
POWER MACINTOSH 5500/225	168-PIN DIMM	60 NS	32MB	128MB	4, 8, 16, 32, 64MB	1	2
POWER MACINTOSH 6500/225	168-PIN DIMM	60 NS	32MB	128MB	4, 8, 16, 32, 64MB	1	2
POWER MACINTOSH 6500/250	168-PIN DIMM	70 NS	32MB	768MB	8, 16, 32, 64MB	1	12
POWER MACINTOSH 9600/233	168-PIN DIMM	60 NS	16MB	160MB	8, 16, 32, 64MB	1	3
POWER MACINTOSH 7220/200	168-PIN DIMM	60 NS	32MB	128MB	4, 8, 16, 32, 64MB	1	2
POWER MACINTOSH 6500/275	168-PIN DIMM	60 NS	64MB	128MB	4, 8, 16, 32, 64MB	1	2
POWER MACINTOSH 6500/300	168-PIN DIMM		32MB	512MB	8, 16, 32, 64MB	1	8
POWER MACINTOSH 7300/180	168-PIN DIMM	70 NS	32MB	160MB	8, 16, 32, 64MB	1	3
POWER MACINTOSH 4400/200	168-PIN DIMM	60 NS	16MB	48MB	N/A	1	1
MACINTOSH POWERBOOK 2400C/180	SO DIMM	N/A		64MB	8-24MB	1	1
MACINTOSH POWERBOOK 1400CS/133	PB1400	70 NS	16MB	64MB	8-24MB	1	1
MACINTOSH POWERBOOK 1400C/166	PB1400	70 NS	16MB	512MB	8, 16, 32, 64MB	1	8
WORKGROUP SERVER 7350/180	168-PIN DIMM	70 NS	48MB	768MB	8, 16, 32, 64MB	1	12
WORKGROUP SERVER 9650/233	168-PIN DIMM	70 NS	64MB	160MB	8, 16, 32, 64MB	1	3
POWER MACINTOSH 7220/200	168-PIN DIMM	60 NS	32MB		4, 8, 16, 32, 64MB	1	2
TWENTIETH ANNIVERSARY MACINTOSH	168-PIN DIMM	60 NS	32MB	128MB	8, 16, 32, 64MB	1	8
POWER MACINTOSH 8600/250	168-PIN DIMM	70 NS	32MB	512MB		1	8
POWER MACINTOSH 8600/300	168-PIN DIMM	70 NS	32MB	512MB	8, 16, 32, 64MB 8, 16, 32, 64MB	1	12
POWER MACINTOSH 9600/300	168-PIN DIMM	70 NS	64MB	768MB	8, 16, 32, 64MB	1	12
POWER MACINTOSH 9600/350	168-PIN DIMM	70 NS	64MB	768MB		1	12
WORKGROUP SERVER 9650/350	168-PIN DIMM	70 NS	64MB	768MB	8, 16, 32, 64MB	1	2
POWER MACINTOSH 6300/160	168-PIN DIMM	70 NS	16MB	136MB	8, 16, 32, 64MB	1	2
POWER MACINTOSH 5500/250	168-PIN DIMM	60 NS	32MB	128MB	4, 8, 16, 32, 64MB	1	3
POWER MACINTOSH G3 MINI TOWER	168-PIN DIMM	10NS	32MB	384MB	8,16,32,64,128MB	1	3
POWER MACINTOSH G3 DESKTOP	168-PIN DIMM	10NS	32MB	192MB	8,16,32,64,128MB	1	1
	PB G3	60NS	32MB	160MB	4-128MB	1	
MACINTOSH POWERBOOK G3 MACINTOSH POWERBOOK 1400CS/166	PB1400	70NS	16MB	64MB	8-24MB	1	1
POWER MACINTOSH G3 ALL-IN-ONE	168-PIN DIMM	10NS	32MB	384MB	8, 16, 32, 64, 128MB	1	
	144PIN SDRAM	100 MHZ	32MB	192MB	32MB, 64MB, 128MB	1	2
MACINTOSH POWERBOOK G3 SERIES 12.1"	144PIN SDRAM	100 MHZ	32MB	192MB	32MB, 64MB, 128MB	1	2
MACINTOSH POWERBOOK G3 SERIES 13.3"		100 MHZ	32MB	192MB	32MB, 64MB, 128MB	1	2
MACINTOSH POWERBOOK G3 SERIES 14.1"	144PIN SDRAM	10NS	32MB	128MB	32MB, 64MB, 128MB	1	2
iMAC G3	iMACG3		32MB	160MB	32MB, 64MB, 128MB	1	1
iBOOK G3	iBOOKG3	10NS		384MB	64MB, 128MB, 256MB	1	2
POWERBOOK G3 BRONZE SERIES	144 PIN SDRAM	10NS	64MB	1GB	64MB, 128MB, 256MB	1	4
BLUE AND WHITE G3 TOWER	168-PIN DIMM	PC-100	64MB 64MB	1536MB	64, 128, 256, 512MB	1	4
POWER MACINTOSH G4 TOWER	168-PIN DIMM	PC-100					





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	Eastman Kodak Company	17	www.kodak.com/go/dc290i
	ExecUtron Development	104	www.Executron.com
	Extensis Corporation	83	www.extensis.com/extreme
	Farallon	73	www.farallon.com/macdirectory/homeline
	FPG International	74	www.fpq.com
	Gabriele Strehle	10, 11	++39.02.89127796
	Globix	121, 145, 154	www.globix.com
	iCorps Tech	89, 109, 127	www.icorpstech.com
	IDG Expo (Macworld Expo)	81, 143	www.macworldexpo.com
	Island Litho	131	www.islandlitho.com
	J.U.M.P.	107, 137	www.jumpspace.com
	Jhane Barnes	4, 5	www.jhanebarnes.com
	Kandu Software	147	www.kandusoftware.com
	Lazarus	112	www.lazarus.com
	MacVolks	109, 135	www.macvolks.com
	Mann Consulting Multimedia	105	www.clicktime.com
	Mann Consulting Multimedia	123	www.reviewmanager.com
	McMobile Inc. (MacSensei)	110	www.macsensei.com
	MegaMacs.com	108	www.megamacs.com
	Metro Technologies, Inc.	108	www.metroinc.com
	Mitsubishi	Inside Back Cov	er www.naturalflat.com/pb/mcd/nf
	n24x7	109, 127	www.n24x7.com
	Nikon	44, Back Cover	www.nikonusa.com
	Novaworks	108, 126, 138,	155 www.novaworks.com
	Pierre Garroudi	Front Inside Cov	ver www.pierregarroudi.com
	Postcard.com	94	www.postcard.com
	Pratt Manhattan	139	www.prostudies.pratt.edu
	Precision Consulting	138	www.precisionconsulting.com
	ProDirect	156	www.pdisales.com
	Samsung	6, 7	www.samsungmonitor.com
	Seven Staffing Inc	113	www.sevenstaffing.com
	SuperStock	35	www.superstockimages.com
1	Techworks	79	www.techworks.com/cool
	Tekserve	125, 137	www.tekserve.com
	The Electronic Mailbox	157	www.videoguys.com
	Tony Stone Images	71	www.tonystone.com
	VST Technologies	43, 64	www.vsttech.com
	ZD Events (Seybold Boston)	65	www.seyboldseminars.com

3D CLIP ART 3D MODELING SOFTWARE	142
JOODELING JOH TWAKE	142
A	
ACCELERATORS	103
ACCESSORIES	
CACHE	103
CABLES	103
DISPLAY DEVICES HARDWARE	103
PCMCIA	103
POWER PROTECTION	103
PRINTING	103
PROJECTION DEVICES	103
SCSI	103
SECURITY	104
SERIAL INTERFACE	104
USB HUBS	104
ACCOUNTING	104
EDUCATION FOCUS	104
FILM & TV FOCUS	104
GENERAL OFFICE	104
GRANTS FOCUS	104
INTERNET/WWW FOCUS	104
INVENTORY	104
JOB COSTING FOCUS	104
LEGAL FOCUS	104
PAYROLL FOCUS POINT OF SALE FOCUS	104
REAL ESTATE FOCUS	104
RETAILING FOCUS	104
TIME & BILLING FOCUS	105
ADVERTISING MANAGEMENT SOFTWARE	105
AGRICULTURE MANAGEMENT SOFTWARE	105
ANATOMY SOFTWARE	105
ANIMATION SOFTWARE	105
APPLE SOLUTION EXPERTS ARCHITECTURE SOFTWARE	105
ASTROLOGY SOFTWARE	105
ASTRONOMY SOFTWARE	105
AUTOMOTIVE MANAGEMENT SOFTWARE	105
BACKUR AND RECOVERY COETHARE	105
BACKUP AND RECOVERY SOFTWARE BAR CODE SOFTWARE	105
BIOLOGY SOFTWARE	105
BOTANY SOFTWARE	105
С	
CAD SOFTWARE	105
CHEMISTRY SOFTWARE	105
CONFERENCING FOCUS	100
CONFERENCING FOCUS DATA, FAX, MODEMS	106
ELECTRONIC MAIL FOCUS	106
ISDN HARDWARE	106
COMPUTER RESELLERS	106
CONNECTIVITY - EMULATION SOFTWARE	109
MAC TO MS-DOS	
MAC TO MS-DOS MAC TO PC	109
MAC TO MS-DOS MAC TO PC MAC TO PCP/IP	109
MAC TO MS-DOS MAC TO PC MAC TO PCP/IP MAC TO PICK	109
MAC TO MS-DOS MAC TO PC MAC TO PCP/IP MAC TO PICK MAC TO TANDEM	109 109
MAC TO MS-DOS MAC TO PC MAC TO PCP/IP MAC TO PICK MAC TO TANDEM MAC TO UNIX	109 109 109
MAC TO MS-DOS MAC TO PC MAC TO PCP/IP MAC TO PICK MAC TO TANDEM MAC TO UNIX PC TO MAC	109 109 109 109
MAC TO MS-DOS MAC TO PC MAC TO PCP/IP MAC TO PICK MAC TO TANDEM MAC TO UNIX	109 109 109 109 109
MAC TO MS-DOS MAC TO PC MAC TO PCP/IP MAC TO PICK MAC TO TANDEM MAC TO UNIX PC TO MAC CONSULTING SERVICES	109 109 109 109 109
MAC TO MS-DOS MAC TO PC MAC TO PCP/IP MAC TO PICK MAC TO TANDEM MAC TO UNIX PC TO MAC CONSULTING SERVICES	109
MAC TO MS-DOS MAC TO PC MAC TO PCP/IP MAC TO PICK MAC TO TANDEM MAC TO UNIX PC TO MAC CONSULTING SERVICES COOKING SOFTWARE	109 109 109 109 109
MAC TO MS-DOS MAC TO PC MAC TO PCP/IP MAC TO PICK MAC TO TANDEM MAC TO UNIX PC TO MAC CONSULTING SERVICES COOKING SOFTWARE DATA ACQUISITION SOFTWARE	109 109 109 109 109 112 112
MAC TO MS-DOS MAC TO PC MAC TO PCP/IP MAC TO PICK MAC TO TANDEM MAC TO UNIX PC TO MAC CONSULTING SERVICES COOKING SOFTWARE DATA ACQUISITION SOFTWARE DATA COLLECTION SOFTWARE DATA RECOVERY	109 109 109 109 109 109 112 112 112
MAC TO MS-DOS MAC TO PC MAC TO PCP/IP MAC TO PICK MAC TO TANDEM MAC TO UNIX PC TO MAC CONSULTING SERVICES COOKING SOFTWARE DATA ACQUISITION SOFTWARE DATA ACQUISITION SOFTWARE DATA RECOVERY DATA VISUALIZATION SOFTWARE	109 109 109 109 109 112 112 112 112 112
MAC TO MS-DOS MAC TO PC MAC TO PCP/IP MAC TO PICK MAC TO TANDEM MAC TO UNIX PC TO MAC CONSULTING SERVICES COOKING SOFTWARE DATA ACQUISITION SOFTWARE DATA COLLECTION SOFTWARE DATA RECOVERY	109 109 109 109 109 112 112

INDEX

DISK DUPLICATION DRIVES	112	L ANCHACE SOFTWARE	122	GENERAL PROGRAMMING HYPERCARD PROGRAMMING	134
DISPLAY SYSTEMS - ACCESSORIES	112	LANGUAGE SOFTWARE	123	JAVA PROGRAMMING	134
E		LCD PANELS LEGAL SOFTWARE	123	MACINTOSH PROGRAMMING	134
ECOMMERCE SOFTWARE	112	LIBRARIES SOFTWARE	123	OOP PROGRAMMING	134
ECONOMICS SOFTWARE	112	LIGHTING DESIGN SOFTWARE	123	PROJECT PLANNING SOFTWARE	135
EDUCATION SOFTWARE		LITERATURE SOFTWARE	123	PROJECTION SYSTEMS	135
ADMINISTRATION	112		-	PSYCHIATRY SOFTWARE	135
ELEMENTARY	115	M		PSYCHOLOGY SOFTWARE	135
SPECIAL EDUCATION	115	MACINTOSH TRAINING	123	PUBLICATIONS	136
ELECTRICAL CAD SOFTWARE	115	MACINTOSH WEB SITES	148	PUBLISHING MANAGEMENT SOFTWARE	136
EMBROIDERY SOFTWARE	115	MAIL ORDER COMPANIES	123	PUBLISHING SOFTWARE	136
EMPLOYMENT SERVICES	113	MANAGEMENT SOFTWARE	124		
ENCYCLOPEDIA	116	MANAGEMENT SOFTWARE - GENERAL	124	Q	
ENGINEERING SOFTWARE		MAPPING SOFTWARE	124	QUILTING SOFTWARE	136
CONSTRUCTION	116	MATHEMATICS - ELEMENTARY SOFTWARE		R	
DESIGN HYDRAULIC	116	MATHEMATICS SOFTWARE MEDICAL SOFTWARE	124	READING SOFTWARE	136
ENTERTAINMENT SOFTWARE	116	MEDICINES SOFTWARE	124	REAL ESTATE MANAGEMENT SOFTWARE	136
ENTERTAINMENT SOFTWARE	110	MEMORY UPGRADES	124	RECORDABLE DRIVES	136
F		METEOROLOGY SOFTWARE	125	RELIGION SOFTWARE	136
FASHION SOFTWARE	116	MONITORS & DISPLAY SYSTEMS	125	REMOVABLE STORAGE	136
FILE MANAGEMENT SOFTWARE	116	MULTIMEDIA/VIDEO SERVICES	125	RENTING & LEASING SERVICES	136
FILE SERVERS	116	MUSIC AND SOUND EFFECTS SOFTWARE	126	REPAIRS	136
FILE TRANSFER SOFTWARE	116	MUSIC AND SOUND HARDWARE	126	RESTAURANT MANAGEMENT SOFTWARE	138
FINANCE INVESTMENT SOFTWARE	116	MUSIC AND SOUND SOFTWARE	126	RETAILING MANAGEMENT SOFTWARE	138
FINANCIAL PLANNING SOFTWARE	116	MUSIC EDITING SOFTWARE	126	REWRITABLE DRIVES	138
FINE ARTS SOFTWARE	116	MUSIC SOFTWARE	126		
FLASH CARD STORAGE	116			S	
FLOPPY DISKS	116	N		SCANNING SOFTWARE	138
FONTS	116	NETWORK - CONNECTORS	126	SCHEDULING SOFTWARE	138
FURNITURE DESIGN SOFTWARE	116	NETWORKING		SCHOOL/EDUCATION	139
_		BRIDGES ETHERNET	126	SCIENTIFIC SOFTWARE	139
G		BRIDGES FOCUS	126	SCREEN SAVERS	139
GAMES	116	CARDS	127	SCREENPLAY/MOVIE WRITING SOFTWARE	139
GENERAL INTEREST SOFTWARE	117	ETHERNET PCMCIA	127	SCRIPT WRITING SOFTWARE	139
GEOGRAPHY SOFTWARE	117	GATEWAYS ETHERNET	126	SECURITY SOFTWARE	139
GEOLOGY SOFTWARE	117	HUBS ETHERNET	126	SEPARATIONS & CALIBRATION SOFTWARE	-
GPS AND NAVIGATION SOFTWARE	117	NETWORKING CARDS - ETHERNET PCI	127	SIGNMAKING SOFTWARE	139
GRAPHICS - CLIP ART FOCUS	117	NETWORKING CARDS - PCI FOCUS	127	SOCIAL SCIENCES SOFTWARE	139
GRAPHICS & DESIGN SERVICES	118	NETWORKING SERVICES	127	SPORTS SOFTWARE - BASEBALL	139
GRAPHICS SOFTWARE	117	NETWORKING SOFTWARE	128	SPORTS SOFTWARE - FISHING	139
н		NON-PROFIT ORGANIZATION SOFTWARE	128	SPORTS SOFTWARE - GOLF	139
HAIRDRESSING MANAGEMENT SOFTW.	ADE 110	NUMERICAL ANALYSIS SOFTWARE	128	SPORTS SOFTWARE - SHOOTING	139
HEALTH & NUTRITION SOFTWARE	118	0		STATISTICS SOFTWARE	139
HISTORY SOFTWARE	118	ONLINE SERVICES - BROWSERS	120	STOCK PHOTOGRAPHY SERVICES STORAGE AND DRIVES	140
UNITED STATES FOCUS	118	OPERATING SYSTEM SOFTWARE	128	STORAGE AND DRIVES - HARD DISKS	141
HUMAN RESOURCES SOFTWARE	118	OPTICAL DRIVES	128	STOKAGE AND DRIVES - TIARD DISKS	1-41
THE STATE OF THE S	110	OPTICAL TEXT RECOGNITION SOFTWARE		Т	
I		OUTPUT	128	TAPE DRIVES	141
IMAGE INTERPRETATION SOFTWARE	118	001.01	12.0	TECHNICAL SUPPORT ASSISTANCE	1.4.
IMAGE PROCESSING SOFTWARE	118	P		(for hardware/software companies)	141
INFORMATION MANAGEMENT SOFTWA	ARE	PAGE LAYOUT SOFTWARE	128	TEXT PROCESSING SOFTWARE	142
BIBLIOGRAPHY	119	PHYSICS SOFTWARE	128	TEXTILE SOFTWARE	142
CONSTRUCTION	119	PMCIA STORAGE	128	TRADE SHOWS AND SEMINARS	142
INPUT DEVICES		PRINTER - IMAGESETTERS	131	TRAINING SERVICES	144
ACCESSORIES FOCUS	119	PRINTERS		TRAINING SOFTWARE	146
BAR CODE READERS	119	DYE SUBLIMATION DEVICES	128	TRANSLATION	146
GRAPHICS TABLETS	119	FILM OUTPUT DEVICES	128	TYPING SOFTWARE	146
JOYSTICKS	119	INKIET DEVICES	131		
KEYBOARDS	119	LABEL DEVICES	131	U	
LIGHT PEN DEVICES	119	LASER OUTPUT DEVICES	131	USED EQUIPMENT	147
MOUSE	119	PLOTTER DEVICES	131	USER GROUPS	147
REMOTE DEVICES	119	PROOFING SYSTEMS	131		
SCANNERS	119	RIP DEVICES	131	V	
TOUCH SCREEN DEVICES	119	SPOOLERS/SERVERS	131	VETERINARIAN SOFTWARE	147
TRACKBALLS	119	PRINTING & PRE-PRESS SERVICES	131	VIDEO DEVICES - HARDWARE	147
INTEGRATION SOFTWARE	119	PROGRAMMING SERVICES	134	VIDEO EDITING SOFTWARE	147
INTERNET & WEB PUBLISHING SOFTWA		PROGRAMMING TOOLS		VIDEO RECORDING DEVICES	147
INTERNET SECURITY SOFTWARE	119	APPLE GUIDE	134	VIRUS PROTECTION SOFTWARE	148
INTERNET SERVICES	119	APPLESCRIPT	134		
INTERNET SERVICES PROVIDERS (ISP)	122	ARTIFICIAL INTELLIGENCE (AI)	134	W	
INTRANET SERVICES	123	BASIC PROGRAMMING	134	WORD PROCESSING SOFTWARE	148
1/		C PROGRAMMING	134	-	
K		C++ PROGRAMMING	134	Z	
KNITTING SOFTWARE	123	CASE PROGRAMMING	134	ZOOLOGY SOFTWARE	148

FORTRAN PROGRAMMING

134

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Apple Introduces the First Low Cost Microcomputer System with a Video Terminal and 8K Bytes of RAM on a Single PC Card.

The Apple Computer. A truly complete microcomputer system on a single PC board. Based on the MOS Technology 6502 microprocessor, the Apple also has a built-in video terminal and sockets for 8K bytes of onboard RAM memory. With the addition of a keyboard and video monitor, you'll have an extremely powerful computer system that can be used for anything from developing programs to playing games or running BASIC.

to playing games or running BASIC.

Combining the computer, video terminal and dynamic memory on a single board has resulted in a large reduction in chip count, which means more reliability and lowered cost. Since the Apple comes fully assembled, tested & burned-in and has a complete power supply on-board, initial set-up is essentially "hassle free" and you can be running within minutes. At \$666.66 (including 4K bytes RAM!) it opens many new possibilities for users and systems manufacturers.

You Don't Need an Expensive Teletype.

Using the built-in video terminal and keyboard interface, you avoid all the expense, noise and maintenance associated with a teletype. And the Apple video terminal is six times faster than a teletype, which means more throughput and less waiting. The Apple connects directly to a video monitor (or home TV with an inexpensive RF modulator) and displays 960 easy to read characters in 24 rows of 40 characters per line with automatic scrolling. The video display section contains its own 1K bytes of memory, so all the RAM memory is available for user programs. And the

Keyboard Interface lets you use almost any ASCII-encoded keyboard.

The Apple Computer makes it possible for many people with limited budgets to step up to a video terminal as an I/O device for their computer.

No More Switches, No More Lights.

Compared to switches and LED's, a video terminal can display vast amounts of information simultaneously. The Apple video terminal can display the contents of 192 memory locations at once on the screen. And the firmware in PROMS enables you to enter, display and debug programs (all in hex) from the keyboard, rendering a front panel unnecessary. The firmware also allows your programs to print characters on the display, and since you'll be looking at letters and numbers instead of just LED's, the door is open to all kinds of alphanumeric software (i.e., Games and BASIC).

8K Bytes RAM in 16 Chips!

The Apple Computer uses the new 16-pin 4K dynamic memory chips. They are faster and take ½ the space and power of even the low power 2102's (the memory chip that everyone else uses). That means 8K bytes in sixteen chips. It also means no more 28 amp power supplies.

The system is fully expandable to

The system is fully expandable to 65K via an edge connector which carries both the address and data busses, power supplies and all timing signals. All dynamic memory refreshing for both on and off-board memory is done automatically. Also, the Apple Computer can be upgraded to use the 16K chips when they become availa-

ble. That's 32K bytes on-board RAM in 16 IC's—the equivalent of 256 2102's!

A Little Cassette Board That Works!

Unlike many other cassette boards on the marketplace, ours works every time. It plugs directly into the upright connector on the main board and stands only 2" tall. And since it is very fast (1500 bits per second), you can read or write 4K bytes in about 20 seconds. All timing is done in software, which results in crystal-controlled accuracy and uniformity from unit to unit.

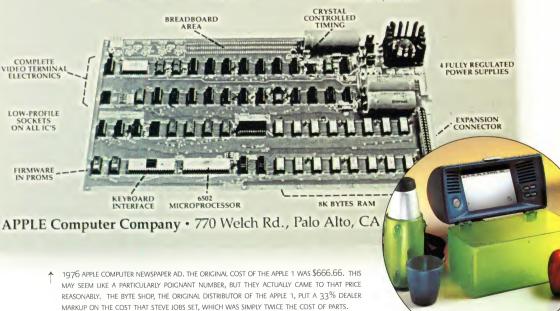
Unlike some other cassette interfaces which require an expensive tape recorder, the Apple Cassette Interface works reliably with almost any audio-grade cassette recorder.

Software:

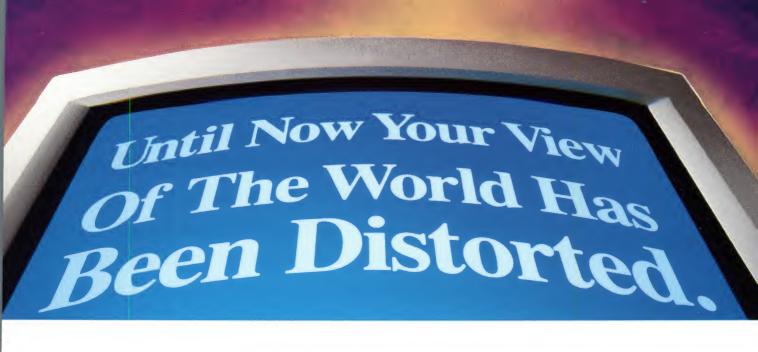
A tape of APPLE BASIC is included free with the Cassette Interface. Apple Basic features immediate error messages and fast execution, and lets you program in a higher level language immediately and without added cost. Also available now are a dis-assembler and many games, with many software packages, (including a macro assembler) in the works. And since our philosophy is to provide software for our machines free or at minimal cost, you won't be continually paying for access to this growing software library.

The Apple Computer is in stock at almost all major computer stores. (If your local computer store doesn't carry our products, encourage them or write us direct). Dealer inquiries invited.

Byte into an Apple\$666.66*



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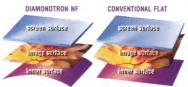




The award-winning Diamond Pro 900u (19-inch CRT/18.0-inch DVI*) is truly distortion-free with a perfectly flat screen surface.

If you're using a conventional CRT monitor, your eyes and brain are working overtime to correct for the curvature. Now, however, with its DIAMONDTRON NFTM (Natural Flat) family, Mitsubishi has completely revolutionized monitor technology. With a perfectly flat screen from edge to edge and truly

unprecedented improvement in viewing pleasure. Not to mention the dazzling brightness, razor-sharp clarity and stunning color accuracy which puts Mitsubishi in a class by itself. With no curvature, reflections and glare are also eliminated. The result is remarkably realistic, natural-looking flat images. Your energy can now be spent being more creative and more productive. For added versatility, DIAMONDTRON NF monitors feature a unique self-powered USB hub which allows you to switch all connected USB peripherals between



two computers automatically. With DIAMONDTRON NF monitors, Mitsubishi will forever change your view of the world. The difference is right before your eyes. For more

information on the award-winning Diamond Pro 900u (19-inch CRT/18.0-inch DVI*) and new Diamond Pro 2020u (22-inch CRT/20-inch DVI*) models, contact Mitsubishi Electronics today.



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